

Reconstruction Steel Work - East Bay (Contract No 04-4030)

The as-built drawings, which are contained in these CDs, are scanned from drawings of the existing structure for the convenience of the contractor and as a means to convey to the contractor the available information regarding the existing structure. It is to be understood that no claim is being made as to the accuracy or completeness of the said information and that the State of California or its officers or agents shall not be responsible for the manner in which the contractor interprets and uses this information or for the accuracy, currency or completeness of these scanned as-built drawings. The contractor shall be responsible to obtain, at the contractor's expense, any additional information that the contractor deems necessary for completely and accurately assessing the existing conditions of the structure. The contractor shall not be entitled to any compensation for any claim arising from inaccuracy or insufficiency of these as-built drawings or in anyway related to these drawings.

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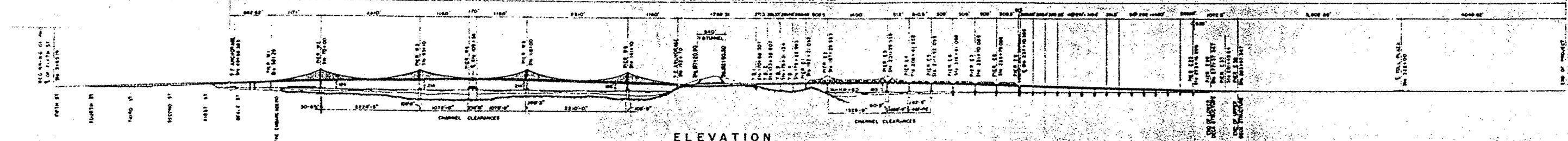
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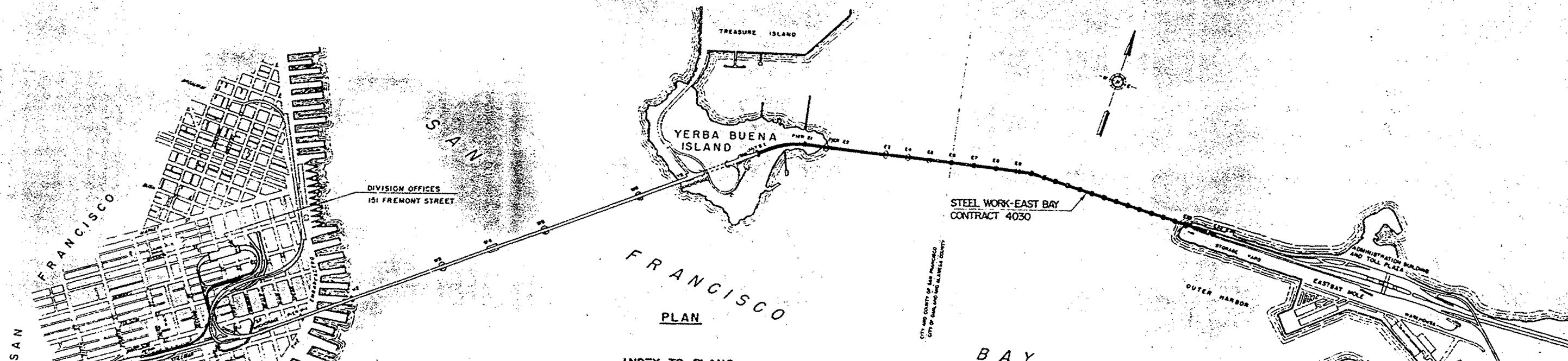
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TOTAL LENGTH OF PROJECT - 31,694.42 OR 5.74 MILES



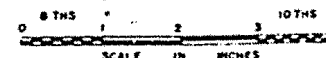
ELEVATION



PLAN

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STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS
SAN FRANCISCO-OAKLAND BAY BRIDGE
RECONSTRUCTION
STEEL WORK-EAST BAY
PROJECT PLAN AND ELEVATION

MARK	DATE	DESCRIPTION	BY	CHK
AS BUILT	3-25-61	As built without revisions	OB	EEF
	34-03			
		REVISION		

SCALE 1"=1000' BRIDGE 34-04 SHEET NO. 1 DRAWING C 4030-R

NO.	BID ITEM	QUAN.	UNIT	DESCRIPTION																																												
1	removing concrete.	2-47 △	cubic yards	<p>Shall consist of all concrete removal, except that the installation of shear brackets, as shown on the plans, shall be as specified.</p> <p>Reinforcing steel exposed by the removal of concrete shall be carefully preserved during concrete removal. If necessary, the concrete shall be removed in such a manner as to leave the reinforcing steel exposed and free of concrete. Exposed reinforcing steel shall be thoroughly cleaned of concrete and other foreign materials and shall be free of rust. Thereafter shall be included in the unit price for reinforcement.</p> <p>Full compensation for making saw cuts for removal of concrete where required under this item and as shown on the plans shall be included in the unit price paid for this item.</p> <p>The quantity of concrete removal shall be computed from the plan dimensions except that, where such dimensions are not shown, field measurements taken before removal shall be used.</p>																																												
2	Class 1 concrete.	265.50 △	cubic yards	<p>Shall conform to the requirements of Section 25, Section 26, as modified by Sections 27 and Section 28, and shall consist of furnishing and placing all concrete as shown on the plans and as specified.</p> <p>The unit weight (loose weight) of the lightweight fine aggregate, when tested in a saturated, surface dry condition in accordance with Test Method No. Calif. 212, shall be not more than 70 pounds per cubic foot nor less than 55 pounds per cubic foot.</p> <p>The unit weight (loose weight) of the lightweight coarse aggregate, when tested in a saturated, surface dry condition in accordance with Test Method No. Calif. 212, shall be not more than 55 pounds per cubic foot nor less than 40 pounds per cubic foot.</p> <p>Lightweight coarse aggregate and lightweight fine aggregate shall conform to the following requirements as determined by Test Method No. Calif. 202 subject to adjustment of percentages for variations in specific gravity of each size of material.</p> <table><thead><tr><th>Sieve Size</th><th colspan="3">Percentage (by Weight) Passing Sieves</th></tr><tr><th></th><th>5/8" x No. 1</th><th>Fine</th><th>Combined Aggregate</th></tr></thead><tbody><tr><td>2 1/4"</td><td>100</td><td>100</td><td>100</td></tr><tr><td>2 1/8"</td><td>20-50</td><td>100</td><td>55-80</td></tr><tr><td>No. 1</td><td>0-10</td><td>90-100</td><td>40-60</td></tr><tr><td>No. 5</td><td>0-5</td><td>65-90</td><td>30-50</td></tr><tr><td>No. 16</td><td>---</td><td>45-70</td><td>20-35</td></tr><tr><td>No. 30</td><td>---</td><td>25-45</td><td>15-25</td></tr><tr><td>No. 50</td><td>---</td><td>10-25</td><td>5-15</td></tr><tr><td>No. 100</td><td>---</td><td>2-12</td><td>0-5</td></tr><tr><td>No. 200</td><td>0-2</td><td>0-4</td><td>0-2</td></tr></tbody></table> <p>Within the above limitations, the relative proportions of coarse and fine aggregates for lightweight concrete shall be adjusted as ordered by the Engineer to produce lightweight concrete of the weight and strength specified.</p> <p>Lightweight aggregate shall be stored in covered bins and maintained in a saturated condition for at least 18 hours prior to being placed in a mixer.</p> <p>Each batch of ready-mixed concrete delivered at the job site shall be accompanied by a ticket showing volume of concrete, the weight of cement in pounds, the weight of mix water in pounds, and the total weight of all ingredients in pounds. The ticket shall also show the time of day at which the materials were batched and the reading of the revolution counter at the time the truck mixer was charging.</p> <p>Preformed expansion joint filler shall conform to the requirements of AASHTO Designation R153, Type 1.</p>	Sieve Size	Percentage (by Weight) Passing Sieves				5/8" x No. 1	Fine	Combined Aggregate	2 1/4"	100	100	100	2 1/8"	20-50	100	55-80	No. 1	0-10	90-100	40-60	No. 5	0-5	65-90	30-50	No. 16	---	45-70	20-35	No. 30	---	25-45	15-25	No. 50	---	10-25	5-15	No. 100	---	2-12	0-5	No. 200	0-2	0-4	0-2
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No. 100	---	2-12	0-5																																													
No. 200	0-2	0-4	0-2																																													
3	bar reinforcing steel.	170.972 △	pounds	<p>Shall conform to the requirements of Section 28 for intermediate grade steel, except that plain bars for bar reinforcing steel trusses shall be structural grade steel with a maximum carbon content of 0.30 percent. Welding shall conform to the requirements of Section 67. Welds of bar reinforcing steel trusses shall be arc or resistance welds which shall resist without failure loads of 2,500 pounds in double shear.</p>																																												
4	structural carbon steel.	84.10 △	pounds	<p>Shall conform to the requirements of Section 31 and 67 and shall consist of furnishing and installing all new structural and miscellaneous steel, except materials specifically provided under Bid Items 5, 6, 7, 8, 9, 12, 14, and 15, complete in place as shown on the plans and as specified. Measurement shall be by the pound, scale weight, including welds and galvanizing.</p> <p>All steel shapes, plates, and bars to be furnished shall be under this item shall conform to the requirements of AASHTO Designation A7.</p> <p>Where existing concrete is to be removed and replaced with dry-pack, as shown on the plans for the installation of shear brackets, such concrete removal, including the removal of the dry-pack work will not be measured for payment but the replacement thereof shall be included in the unit price for this item.</p> <p>Expansion dam assemblies and expansion grouting shall be dip galvanized after fabrication.</p> <p>Welded studs shall be full size threaded studs, as specified, and shall be furnished and installed as shown on the plans and as specified, and shall be measured and paid for as specified in this item.</p>																																												

GENERAL NOTES - ALL WORK

CONCRETE AND GROUT (Cont'd)

air-water jet so that a clean surface of sound concrete is exposed. Preparation for bonding new dry-pack grout to the deck concrete shall consist of wire brushing and such other cleaning of the existing concrete surface as is required to provide a clean surface of sound concrete. The surfaces not exposed shall be kept continuously wet for not less than 24 hours before placing new concrete or grout and, at the time of placing, shall be clean and slightly damp. Holes drilled for grouting shall be treated in the same manner as provided for surfaces receiving grout or new concrete except that cleaning shall be performed by high pressure air-water jet, and shall be free of all foreign and loose material at the time of grouting. Areas to receive epoxy resin adhesive shall be allowed to dry.

EPOXY ADHESIVE AND MORTAR

10. An epoxy-thiokol adhesive coating to bond new concrete or grout to old concrete shall be applied to prepared surfaces of existing concrete as a brushed coating not less than 1/16-inch thick in areas where the finished surface is to be less than two inches above the surface of existing concrete, and shall be followed by placement of grout or concrete of 1-1/2 inch maximum slump at such times and in such a manner as to secure the most effective bond between new concrete or grout and old concrete.

Mixing and application of all epoxy-thiokol adhesive coating shall be personally supervised by a qualified technical representative of the formulator. The procedures and materials to be used and the qualifications of the technical representative shall be subject to the approval of the Engineer and no adhesive coating shall be placed until such approval has been granted.

Epoxy-thiokol adhesive coating shall be prepared as follows:

Description	Each	Combined Mix
Can A		
Shell Epon Resin 815, or equal	100%	60.7%
Can B		
Thiokol LP-3, or equal	80%	26.6%
DMP-30, or equal	20%	6.7%
	100%	100.0%

Into the combined mix of Cans A and B, add Purter White Silica, or equal, to produce the proper consistency for application as an adhesive coating. No epoxy-thiokol adhesive shall be applied when either the ambient or concrete temperature is lower than 60° F.

Epoxy-thiokol adhesive coating which sets up in the opinion of the formulator's representative or the Engineer before the concrete or grout is placed shall be removed by methods approved by the Engineer and fresh epoxy-thiokol adhesive coating shall be applied before the concrete or grout placed as shown on the plans and as specified; such work will not be measured but full compensation therefor shall be considered to be included in the unit price paid for removing concrete.

Should application of heat be required to complete the cure of the epoxy-thiokol adhesive coating, the heat shall be distributed evenly in such a manner that the temperature rise and fall of the concrete shall not exceed 20° F. per hour. Full compensation for application of heat required to complete the cure of epoxy-thiokol adhesive shall be included in the unit price paid for concrete removal.

Full compensation for furnishing and applying the required epoxy-thiokol adhesive coating shall be included in the price paid for concrete removal, and no additional allowance will be made therefor.

STEEL WORK

11. Where removing or removing and reinstalling existing structural steel is required to perform the work of this contract and such work is not specifically provided in the bid item descriptions, such removing or removing and reinstalling shall be performed by the Contractor as shown on the plans and as specified and will not be measured but full compensation therefor shall be considered to be included in the unit or lump sum prices paid for the bid items for which such removing or removing and reinstalling is required.

STEEL WORK (Cont'd)

12. Dimensions, weights and properties of rolled steel structural shapes shall match those set forth in the Steel Construction Manual of the American Institute of Steel Construction.

13. Welded steel members shall be fabricated to the dimensional tolerances set forth in the Standard Specifications for Welded Highway and Railway Bridges of the American Welding Society.

14. The Contractor shall provide a sufficient quantity of identified samples of A500, A501 and T-1 steel ordered under this contract to perform the tests required for qualification of welders, welding operators, and welding procedures. Such samples will not be measured but full compensation for furnishing and testing such samples shall be included in the unit prices paid for the structural steel bid items and no additional compensation will be allowed therefor.

15. High strength bearing bolts with their nuts and hardened washers shall be furnished and installed in accordance with the requirements of Section 11 except that nuts shall be tightened by the calibrated wrench method. High strength bearing bolts shall be of the interference-body type as manufactured by Lanson and Sessions.

All high strength bearing bolts with their nuts and hardened washers will be measured and paid for under Bid Item 2.

16. Heads of bolts installed on longitudinal members shall face the center line of the lower deck, and on transverse members shall face the traffic flow of the completed bridge.

ELECTRICAL AND MECHANICAL WORK

17. Electrical and mechanical work shall conform to the requirements of Sections 60 and 62, and the following modifications.

Full compensation for galvanizing required for electrical and mechanical work shall be considered as included in the unit prices paid for the various items of work.

Cleaning and painting of electrical and mechanical work shall conform to the requirements of Sections 32, 33, 60, and 62, except that full compensation therefor shall be included in the lump sum price paid for cleaning and painting.

18. All ferrous fastenings and supports shall be hot-dip galvanized. The Contractor shall furnish and install all fastenings and supports required to provide pipe and conduit complete in place and in operable condition and full compensation therefor shall be included in the prices paid for the various items of work.

The interior of each conduit shall be clean before installation of cable or wire, and full compensation for required cleaning shall be considered as included in the price paid per linear foot for the cable or wire to be installed.

19. The Contractor shall furnish and install an approved insulating material between dissimilar metals to prevent galvanic action.

20. Full compensation for all additional labor and materials not shown on the plans or called for herein and for furnishing and installing materials shown on the plans but not covered under specific bid items, but which are necessary to provide the electrical and mechanical work complete and in satisfactory operating condition shall be considered as included in the prices paid for the electrical and mechanical work or units thereof and no additional compensation will be allowed therefor. The use of State-furnished materials does not relieve the Contractor of his responsibility to provide the electrical and mechanical systems complete and in satisfactory operating condition.

21. All new materials and equipment in electrical and mechanical work furnished by the Contractor shall match existing materials in the project.

22. Existing electrical and mechanical systems and other utilities shall be maintained in operable condition equivalent in the opinion of the Engineer to that existing at the time construction is begun, and full compensation for such maintenance including the installation and removal of temporary facilities required to provide uninterrupted services shall be considered as included in the prices paid for the various contract items of work and no additional payment will be allowed therefor.

USE OF STATE-OWNED TRAVELER SCAFFOLDS

23. Two State-owned traveler scaffolds, No. 1, B&B and B&B on the east bay spans and two State-owned traveler scaffolds, No. 2, B&B and B&B, on the west bay spans are available for use by the Contractor at his option subject to the following requirements:

a. Not less than two State-owned traveler scaffolds shall be available at all times for use by bridge maintenance forces on the east bay spans.

b. Prior to any use by the Contractor of State-owned scaffolds B&B and B&B, the installation of air, electric, water, and control systems under Bid Item 9 shall be completed.

c. Whenever the Contractor in the progress of his work meets a scaffold used by the maintenance forces, he shall trade it for the last of his train, transfer materials and equipment from one to the other, and put both scaffolds into the condition suitable for the changed occupancy and use. The transfer shall be accomplished with the least possible interference with maintenance operations.

d. The State will furnish the Contractor extension beams, hangers, and accessories required in moving the scaffolds across expansion joints. This material shall be returned to the State in good condition immediately following each use.

e. The State-owned traveler scaffolds and the traveler rail system were designed to be used for maintenance purposes. Their capacities for performing the work of this contract safely without adaptation are limited. Therefore, it shall be the Contractor's responsibility to determine the capacities of the State-owned traveler scaffolds No. 1, B&B, B&B, B&B, and B&B and the existing and altered traveler rail system and to design and construct any additional alterations required thereon to insure their safety under any loads that may be imposed upon them. To construct any other structural, mechanical, electrical, or other alteration required in the performance of the contract work, and to repair and maintain the scaffolds in operable condition during the contract period. Upon completion of the work, the traveler scaffolds shall remain in place on the east bay spans at locations designated by the Engineer and the Contractor shall restore the traveler scaffolds and traveler rail system to a condition suitable for maintenance use as approved by the Engineer. Furnishing all materials and doing all work required to move and adapt the scaffolds and adapt the traveler rail system as required in this note and which are not provided under Bid Items 8 and 9 will not be measured but will be considered to be for the Contractor's convenience and full compensation therefor will be considered to be included in the unit and lump sum prices paid for the various items of work.

TRAVELER SCAFFOLD AND RAIL SYSTEM MODIFICATIONS


24. Detailed plans of modifications of State-owned traveler scaffolds and of the traveler rail system and construction details of all other scaffolds which will be used by the Contractor, together with proposed loadings and procedures of use, shall be submitted to the Engineer for approval.

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS			
SAN FRANCISCO-OAKLAND BAY BRIDGE RECONSTRUCTION STEEL WORK-EAST BAY			
CONTRACT WORK - BID ITEMS 1 TO 4			
DATE	33-26	BY	EEF
34-03	34-03	CHK	CHK
SCALE NONE	BRIDGE 34-04	SHEET NO. 2	DRAWING C-4030-2R

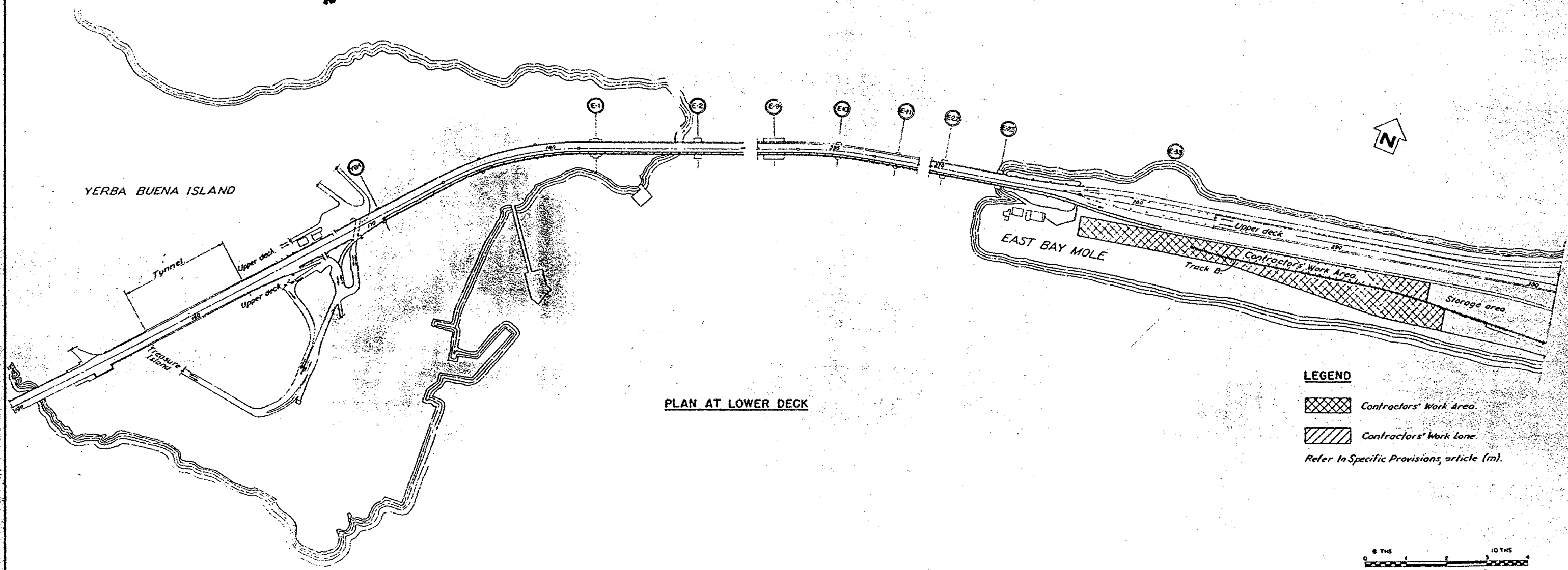
APPROVAL RECOMMENDED BY: *Edna L. Cummings*
DATE: *10/10/66*

BY: *Edna L. Cummings*
DATE: *10/10/66*
FOR: *Edna L. Cummings*
BY: *Edna L. Cummings*
DATE: *10/10/66*
FOR: *Edna L. Cummings*

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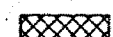
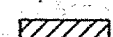
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	DATE	DESCRIPTION	BY	CHK
		RESUME		

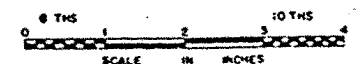
CONTRACT WORK-BID ITEMS 5 TO 15			
SCALE: NONE	BRIDGE 33-25 34-03 34-03	SHEET NO. 3	DRAWING: 4030



PLAN AT LOWER DECK

LEGEND

-  Contractors' Work Area.
-  Contractors' Work Lane.
- Refer to Specific Provisions, article (m).

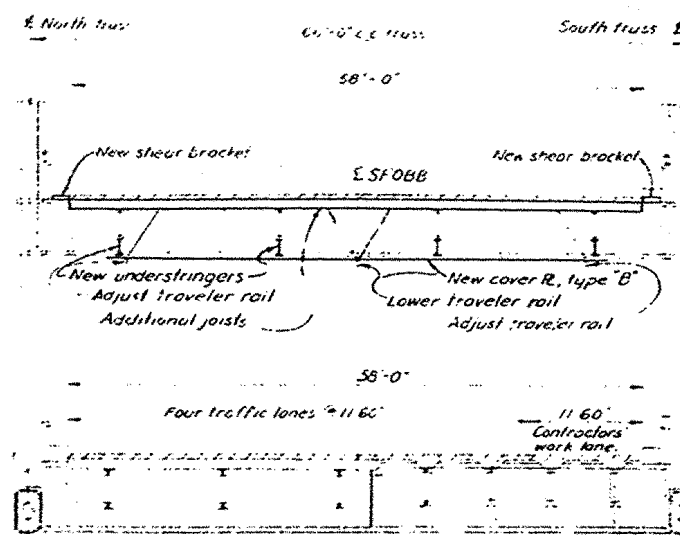


APPROVAL RECOMMENDED BY: *W. J. C. [Signature]*
DATE: 11/1/63

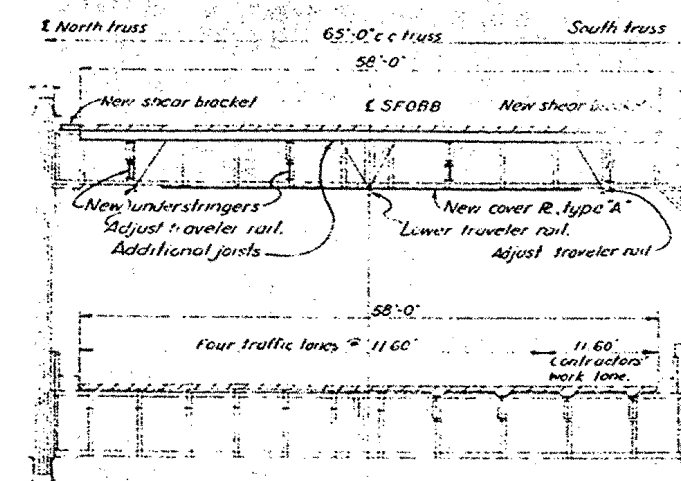
DESIGNED BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE
DESIGN AND DETAIL REVIEWED BY	DATE

MARK	DATE	DESCRIPTION	BY
11.1.63	As built without revisions		EEF
33-25			
34-04			

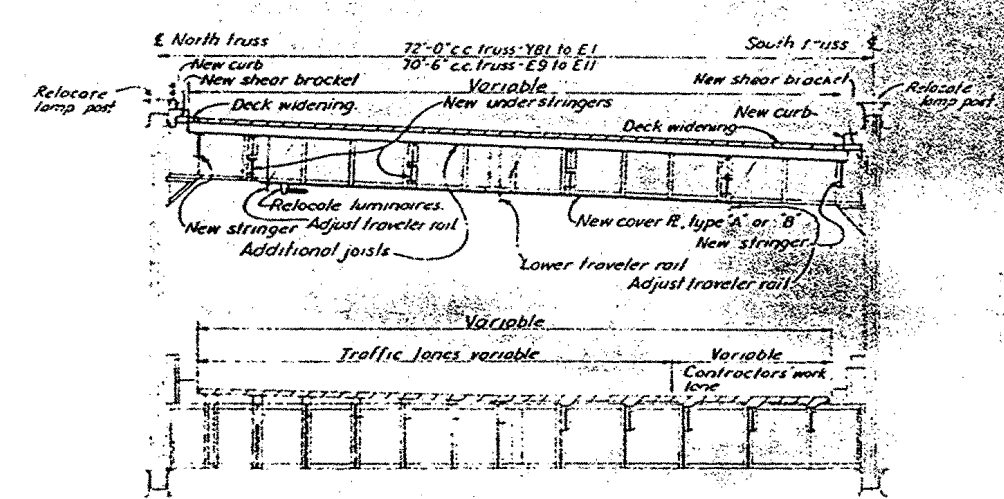
STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS			
SAN FRANCISCO-OAKLAND BAY BRIDGE RECONSTRUCTION STEEL WORK-EAST RAY			
CONTRACTORS' WORK AREA			
SCALE 1" = 200'	BRIDGE 34-04	SHEET NO. 4	DRAWING C 4030-4R



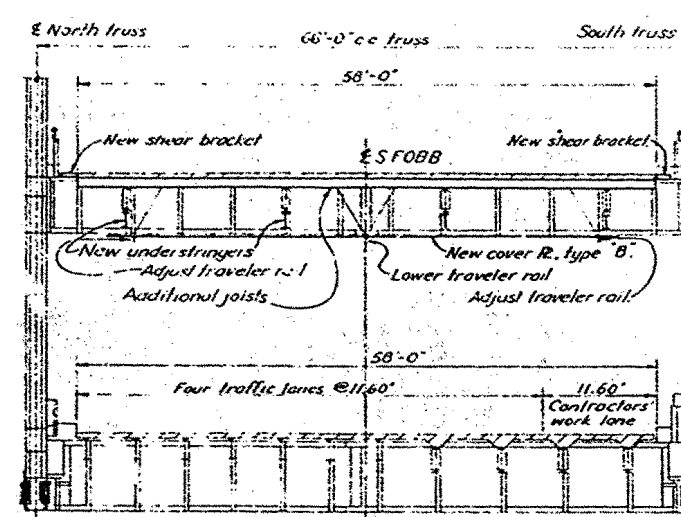
CANTILEVER STRUCTURE - PIER E1 TO E4



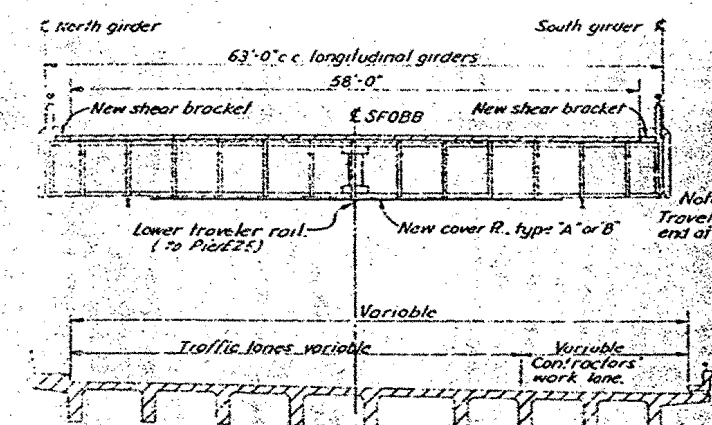
288 FT. SPANS - PIER E11 TO E23



288 FT. SPANS - PIER YB1 TO E1 AND PIER E9 TO E11



504 FT. SPANS - PIER E4 TO E9



GIRDER SPANS - PIER E23 TO E33

DESIGN NOTES

1. Standard Specifications for Highway Bridges of the American Association of State Highway Officials, 1950, modified and specified as follows:

2. Weight concrete, reinforced, 120 lbs/cu ft.

3. Concrete, light weight, $f'_c = 3000$ p.s.i., $f_c = 1200$ p.s.i., $n = 18$.

4. Steel, structural grade, $f_y = 40,000$ p.s.i.

5. Steel, high strength, structural steel:

 A-50, modified, $f_y = 24,000$ p.s.i., $f_u = 45,000$ p.s.i., $f_u = 72,000$ p.s.i. min.

 A-50, 1 and less, $f_y = 27,000$ p.s.i., $f_u = 52,000$ p.s.i., $f_u = 72,000$ p.s.i. min.

 A-50, 2 and less, $f_y = 27,000$ p.s.i., $f_u = 52,000$ p.s.i., $f_u = 72,000$ p.s.i. min.

 A-50, 3 and less, $f_y = 27,000$ p.s.i., $f_u = 52,000$ p.s.i., $f_u = 72,000$ p.s.i. min.

6. Bolted structural joints of the Engineering Foundation, March, 1960.

7. The loading capacity of the stringers will be increased by bolting understringers to the bottom flange of the stringers.

8. The loading capacity of the floor beams will be increased:

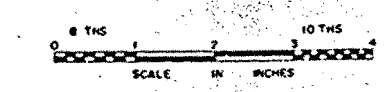
 (a) By bolting prestressed high strength steel cover plates to the bottom flange.

 (b) By adding of metal will reduce the tensile stresses of the existing material under live load.

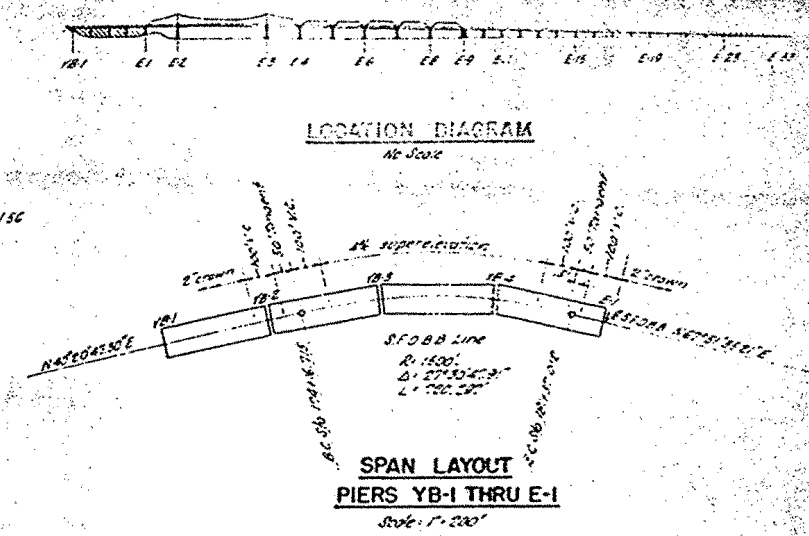
 (c) By prestressing the new cover plate an initial compressive force will be exerted on the bottom flange resulting in a reduction of the dead load tensile stresses. A greater portion of the working stresses of the existing material will thus be available for the live load.

9. By bolting shear brackets to both ends of the top (compression) flange, bearing laterally against the concrete deck, a partial composite action of steel and concrete will be obtained, thus, reducing the live load stresses in the top flange.

10. The loading capacity of the joists will be increased by addition of new joists.



STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF SAN FRANCISCO BAY TOLLA CROSSINGS			
SAN FRANCISCO-OAKLAND BAY BRIDGE RECONSTRUCTION STEEL WORK - EAST BAY			
TYPICAL SECTIONS			
DATE	DESCRIPTION	BY	CHK
11-63	As built without revisions	EEF	CHK
33-25			
34-03			
34-04			
SCALE 1" = 1'-0"		BRIDGE	SHEET No 5
		DRAWING 4030-5R	





LEGEND

- ② Existing lane signal control lights.
- Relocated deck drains (except existing at L/E North).
- △ → Indicates location where quantities, dimensions or denominations are changed due to revision.

NOTES

1. Exact location of work will be determined in the field
2. For type "B" cover plate size see Sheet No. 57.
3. For Deck Framing Plans see Sheets No. 16, 17, 18, 19

	11.63	<i>As built with revisions</i>		J.L.S.	EEF
	MARK	DATE	DESCRIPTION	BY	CHK
REVISION					




STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS	
SAN FRANCISCO-OAKLAND BAY BRIDGE RECONSTRUCTION STEEL WORK - EAST BAY	
PLAN AND ELEVATION STA.170+68 TO STA.182+22	

UNLESS NOTED SCALE 1"=50'	33-25	SHEET NO 6	DRAWING C 4030-6
	BRIDGE 34-03 34-04		



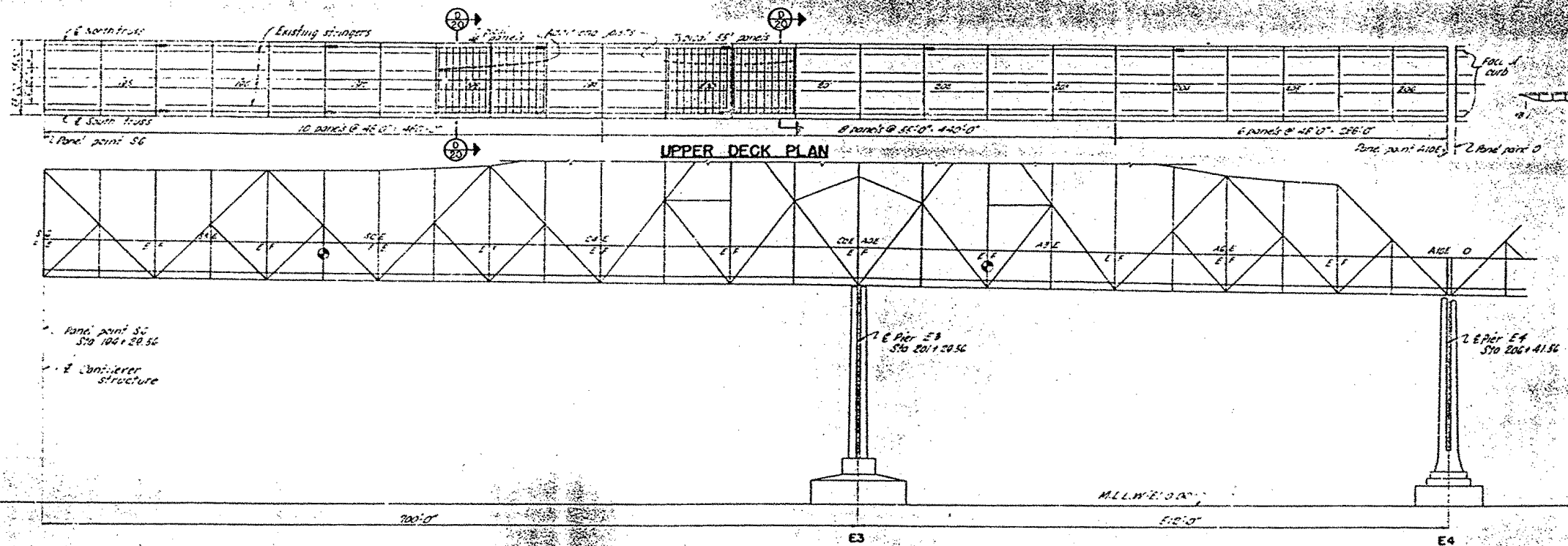
LEGEND

Existing in
Existing in
Indicates
changed

- TABULATION OF QUANTITIES  *

FLOOR STRENGTHENING REQUIREMENTS \triangle^*

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS			
SAN FRANCISCO - OAKLAND BAY BRIDGE RECONSTRUCTION STEEL WORK - EAST BAY			
PLAN AND ELEVATION STA. 182+22 TO STA. 194+30			
UNLESS NOTED SCALE 1" = 50'	33 - 25 34 - 03 BRIDGE 34 - 04	SHEET NO 7	DRAWING C-4030 76



LOCATION DIAGRAM
No. 5004

LEGEND

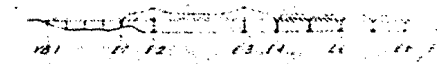
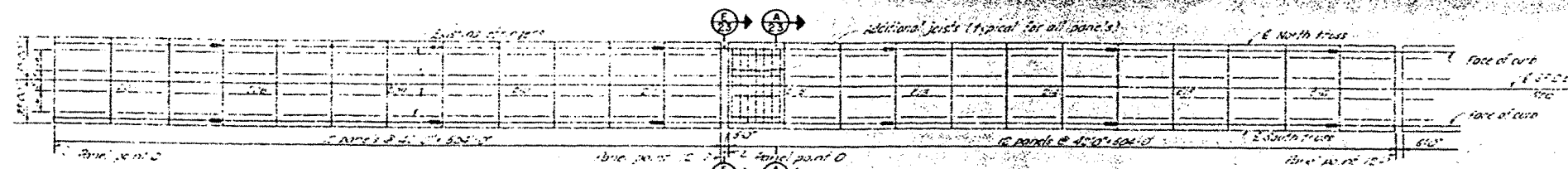
- Existing lane signal control lights
- Existing deck drains
- Indicates location where quantities, dimensions or denominations are changed due to revision.

NOTES

- Exact location of work will be determined in the field
- For type B cover plate sizes see Sheet No. 57
- For work on container structure see sheets No. 24, 25, 26

TABULATION OF QUANTITIES

UPPER DECK PANEL POINT		SS	SSE	S4E	S3E	S2E	S1E	SCE	C7E	C6E	C5E	C4E	C3E	C2E	C1E	CCE	AGE	A7E	A6E	A5E	A4E	A3E	A2E	A1E	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE	AGE
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LOCATION DIAGRAM

LEGEND

- Existing lane & grade control
- Existing deck drains
- Indicates location where quantities or denominations are changed

NOTES

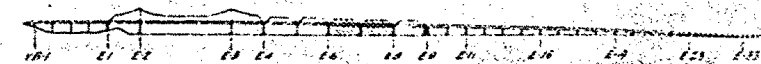
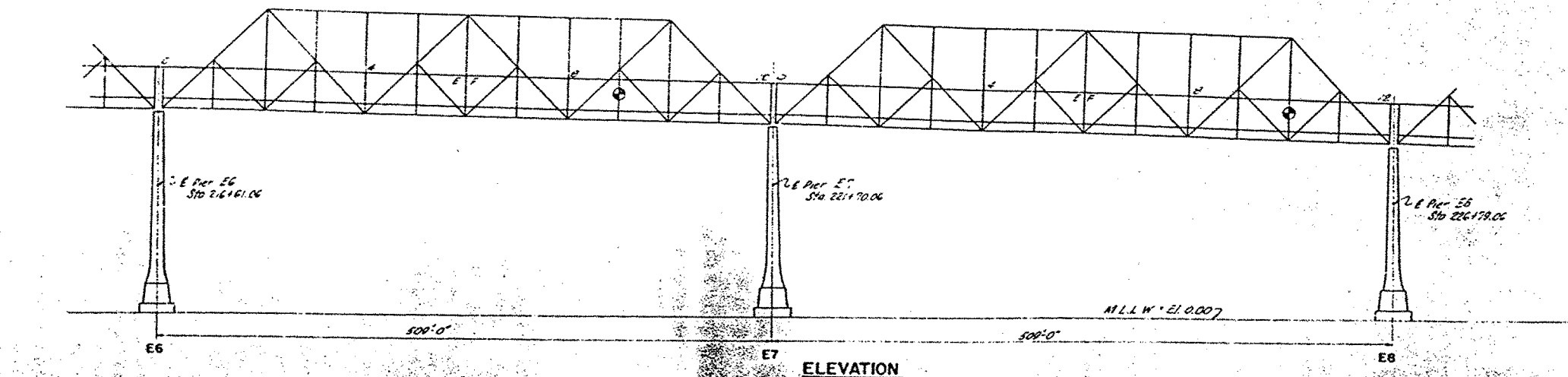
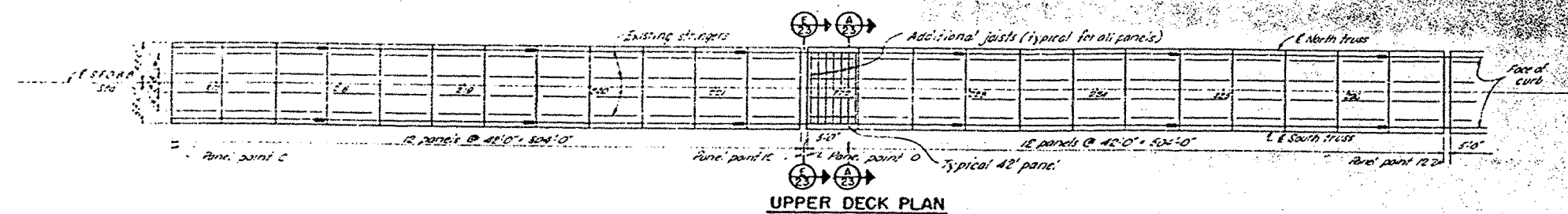
- Exact location of work to be determined in the field
- For type B or C deck areas, see Sheet No. 57
- For work on deck slabs, see Sheet No. 58

UPPER DECK PLAN

ELEVATION

TABULATION OF QUANTITIES

UPPER DECK PANEL POINT		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	122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LEGEND

- Existing lane signal vertical lights
- Existing deck drains
- Indicates location where quantities, dimensions or denominations are changed due to revision.

NOTES

- Exact location of work will be determined in the field.
- See Sheet No. 97 for type 'B' cover plate sizes.
- For work on 50' spans, see sheets No. 23, 24.

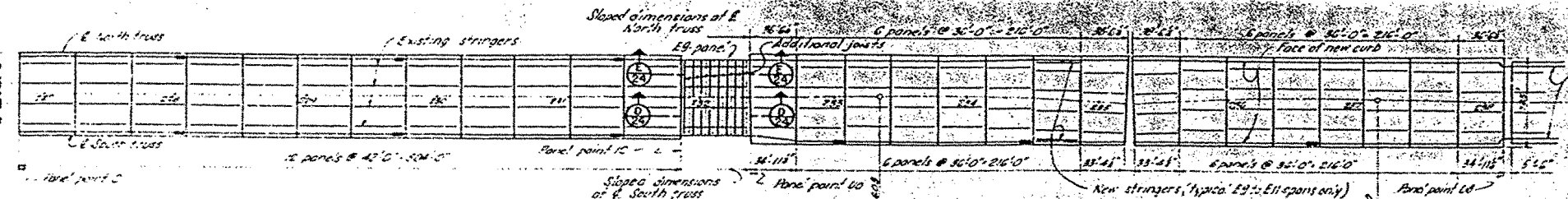
TABULATION OF QUANTITIES

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FLOOR STRENGTHENING REQUIREMENTS

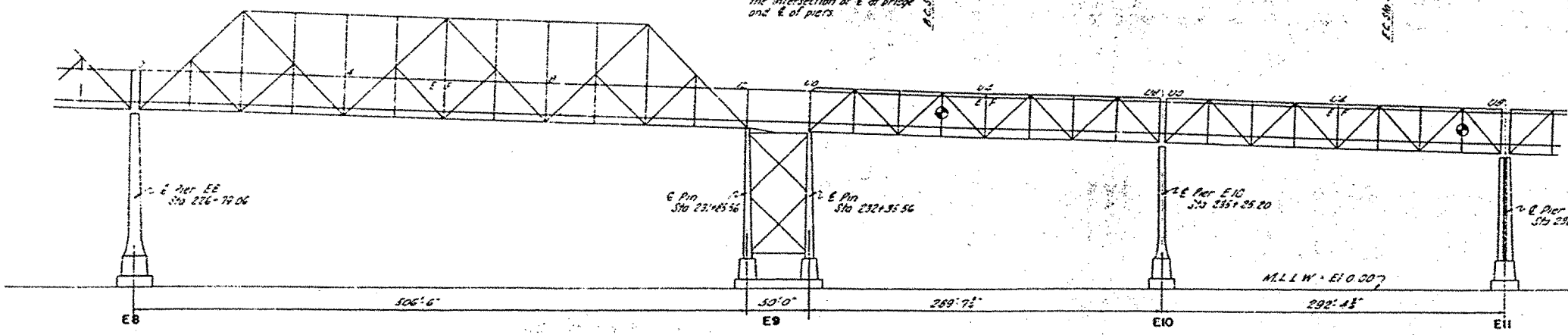
FLOOR STRENGTHENING REQUIREMENTS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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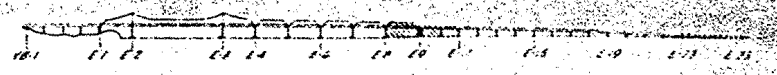


UPPER DECK PLAN

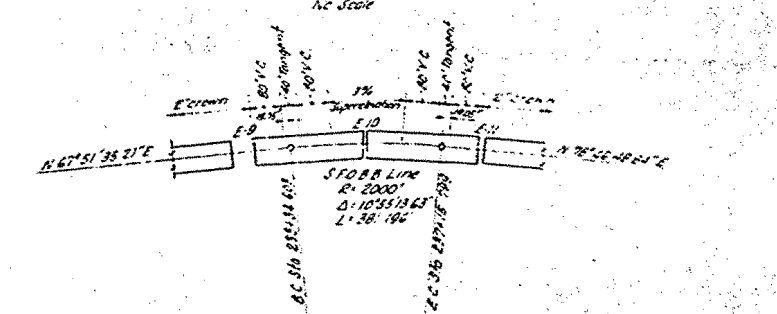
Note: Curve sections related to the intersection of E of bridge and E of piers.



ELEVATION



LOCATION DIAGRAM



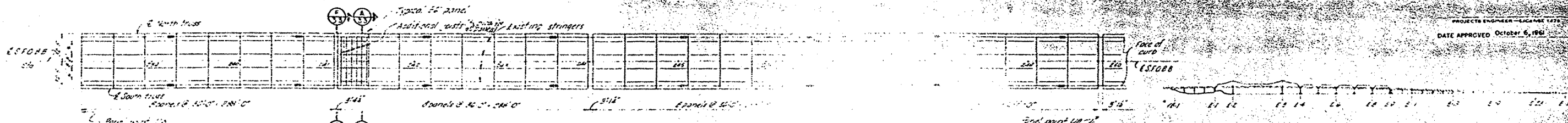
SPAN LAYOUT PIERS E9 THRU E11

Scale: 1" = 200'

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FLOOR STRENGTHENING REQUIREMENTS

Average stringers	Existing stringer - North (unknown steel)	30 A106	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	
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LOCATION DIAGRAM
No Scale

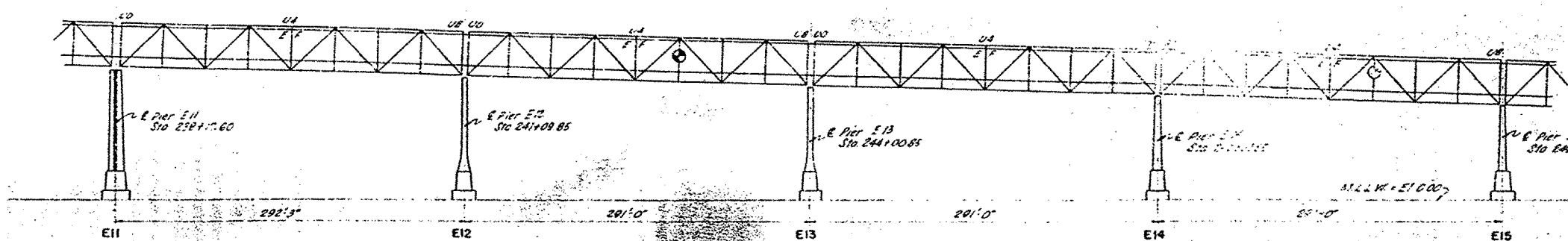
LEGEND

- Existing one signal control lights
- Existing deck drains
- * Indicates location where quantities, dimensions or denominations are changed due to revision.

NOTES

- Exact location of work will be determined in the field.
- For work on 200' spans, see Sheets No. 33-34.

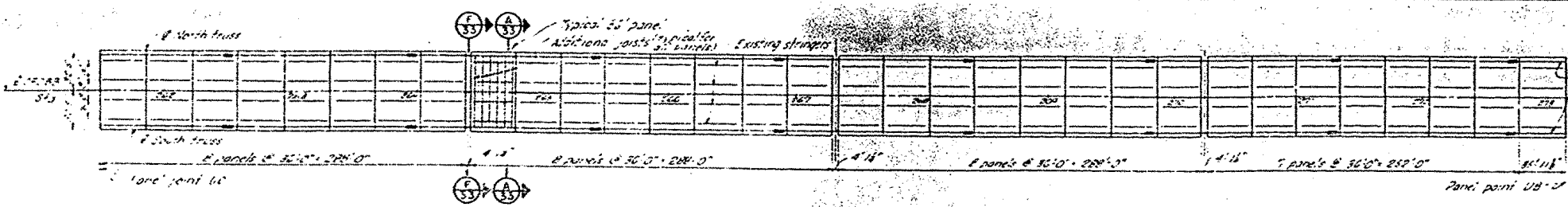
UPPER DECK PLAN



ELEVATION

TABULATION OF QUANTITIES

UPPER DECK PANEL POINT		U0	U1	U2	U3	U4	U5	U6	U7	U8	U9	U10	U11	U12	U13	U14	U15	U16	U17	U18	U19	U20	U21	U22	U23	U24	U25	U26	U27	U28	U29	U30	U31	U32	U33	U34	U35	U36	U37	U38	U39	U40	U41	U42	U43	U44	U45	U46	U47	U48	U49	U50	U51	U52	U53	U54	U55	U56	U57	U58	U59	U60	U61	U62	U63	U64	U65	U66	U67	U68	U69	U70	U71	U72	U73	U74	U75	U76	U77	U78	U79	U80	U81	U82	U83	U84	U85	U86	U87	U88	U89	U90	U91	U92	U93	U94	U95	U96	U97	U98	U99	U100	U101	U102	U103	U104	U105	U106	U107	U108	U109	U110	U111	U112	U113	U114	U115	U116	U117	U118	U119	U120	U121	U122	U123	U124	U125	U126	U127	U128	U129	U130	U131	U132	U133	U134	U135	U136	U137	U138	U139	U140	U141	U142	U143	U144	U145	U146	U147	U148	U149	U150	U151	U152	U153	U154	U155	U156	U157	U158	U159	U160	U161	U162	U163	U164	U165	U166	U167	U168	U169	U170	U171	U172	U173	U174	U175	U176	U177	U178	U179	U180	U181	U182	U183	U184	U185	U186	U187	U188	U189	U190	U191	U192	U193	U194	U195	U196	U197	U198	U199	U200	U201	U202	U203	U204	U205	U206	U207	U208	U209	U210	U211	U212	U213	U214	U215	U216	U217	U218	U219	U220	U221	U222	U223	U224	U225	U226	U227	U228	U229	U230	U231	U232	U233	U234	U235	U236	U237	U238	U239	U240	U241	U242	U243	U244	U245	U246	U247	U248	U249	U250	U251	U252	U253	U254	U255	U256	U257	U258	U259	U260	U261	U262	U263	U264	U265	U266	U267	U268	U269	U270	U271	U272	U273	U274	U275	U276	U277	U278	U279	U280	U281	U282	U283	U284	U285	U286	U287	U288	U289	U290	U291	U292	U293	U294	U295	U296	U297	U298	U299	U300	U301	U302	U303	U304	U305	U306	U307	U308	U309	U310	U311	U312	U313	U314	U315	U316	U317	U318	U319	U320	U321	U322	U323	U324	U325	U326	U327	U328	U329	U330	U331	U332	U333	U334	U335	U336	U337	U338	U339	U340	U341	U342	U343	U344	U345	U346	U347	U348	U349	U350	U351	U352	U353	U354	U355	U356	U357	U358	U359	U360	U361	U362	U363	U364	U365	U366	U367	U368	U369	U370	U371	U372	U373	U374	U375	U376	U377	U378	U379	U380	U381	U382	U383	U384	U385	U386	U387	U388	U389	U390	U391	U392	U393	U394	U395	U396	U397	U398	U399	U400	U401	U402	U403	U404	U405	U406	U407	U408	U409	U410	U411	U412	U413	U414	U415	U416	U417	U418	U419	U420	U421	U422	U423	U424	U425	U426	U427	U428	U429	U430	U431	U432	U433	U434	U435	U436	U437	U438	U439	U440	U441	U442	U443	U444	U445	U446	U447	U448	U449	U450	U451	U452	U453	U454	U455	U456	U457	U458	U459	U460	U461	U462	U463	U464	U465	U466	U467	U468	U469	U470	U471	U472	U473	U474	U475	U476	U477	U478	U479	U480	U481	U482	U483	U484	U485	U486	U487	U488	U489	U490	U491	U492	U493	U494	U495	U496	U497	U498	U499	U500	U501	U502	U503	U504	U505	U506	U507	U508	U509	U510	U511	U512	U513	U514	U515	U516	U517	U518	U519	U520	U521	U522	U523	U524	U525	U526	U527	U528	U529	U530	U531	U532	U533	U534	U535	U536	U537	U538	U539	U540	U541	U542	U543	U544	U545	U546	U547	U548	U549	U550	U551	U552	U553	U554	U555	U556	U557	U558	U559	U560	U561	U562	U563	U564	U565	U566	U567	U568	U569	U570	U571	U572	U573	U574	U575	U576	U577	U578	U579	U580	U581	U582	U583	U584	U585	U586	U587	U588	U589	U590	U591	U592	U593	U594	U595	U596	U597	U598	U599	U600	U601	U602	U603	U604	U605	U606	U607	U608	U609	U610	U611	U612	U613	U614	U615	U616	U617	U618	U619	U620	U621	U622	U623	U624	U625	U626	U627	U628	U629	U630	U631	U632	U633	U634	U635	U636	U637	U638	U639	U640	U641	U642	U643	U644	U645	U646	U647	U648	U649	U650	U651	U652	U653	U654	U655	U656	U657	U658	U659	U660	U661	U662	U663	U664	U665	U666	U667	U668	U669	U670	U671	U672	U673	U674	U675	U676	U677	U678	U679	U680	U681	U682	U683	U684	U685	U686	U687	U688	U689	U690	U691	U692	U693	U694	U695	U696	U697	U698	U699	U700	U701	U702	U703	U704	U705	U706	U707	U708	U709	U710	U711	U712	U713	U714	U715	U716	U717	U718	U719	U720	U721	U722	U723	U724	U725	U726	U727	U728	U729	U730	U731	U732	U733	U734	U735	U736	U737	U738	U739	U740	U741	U742	U743	U744	U745	U746	U747	U748	U749	U750	U751	U752	U753	U754	U755	U756	U757	U758	U759	U760	U761	U762	U763	U764	U765	U766	U767	U768	U769	U770	U771	U772	U773	U774	U775	U776	U777	U778	U779	U780	U781	U782	U783	U784	U785	U786	U787	U788	U789	U790	U791	U792	U793	U794	U795	U796	U797	U798	U799	U800	U801	U802	U803	U804	U805	U806	U807	U808	U809	U810	U811	U812	U813	U814	U815	U816	U817	U818	U819	U820	U821	U822	U823	U824	U825	U826	U827	U828	U829	U830	U831	U832	U833	U834	U835	U836	U837	U838	U839	U840	U841	U842	U843	U844	U845	U846	U847	U848	U849	U850	U851	U852	U853	U854	U855	U856	U857	U858	U859	U860	U861	U862	U863	U864	U865	U866	U867	U868	U869	U870	U871	U872	U873	U874	U875	U876	U877	U878	U879	U880	U881	U882	U883	U884	U885	U886	U887	U888	U889	U890	U891	U892	U893	U894	U895	U896	U897	U898	U899	U900	U901	U902	U903	U904	U905	U906	U907	U908	U909	U910	U911	U912	U913	U914	U915	U916	U917	U918	U919	U920	U921	U922	U923	U924	U925	U926	U927	U928	U929	U930	U931	U932	U933	U934	U935	U936	U937	U938	U939	U940	U941	U942	U943	U944	U945	U946	U947	U948	U949	U950	U951	U952	U953	U954	U955	U956	U957	U958	U959	U960	U961	U962	U963	U964	U965	U966	U967	U968	U969	U970	U971	U972	U973	U974	U975	U976	U977	U978	U979	U980	U981	U982	U983	U984	U985	U986	U987	U988	U989	U990	U991	U992	U993	U994	U995	U996	U997	U998	U999	U1000	U1001	U1002	U1003	U1004	U1005	U1006	U1007	U1008	U1009	U1010	U1011	U1012	U1013	U1014	U1015	U1016	U1017	U1018	U1019	U1020	U1021	U1022	U1023	U1024	U1025	U1026	U1027	U1028	U1029	U1030	U1031	U1032	U1033	U1034	U1035	U1036	U1037	U1038	U1039	U1040	U1041	U1042	U1043	U1044	U1045	U1046	U1047	U1048	U1049	U1050	U1051	U1052	U1053	U1054	U1055	U1056	U1057	U1058	U1059	U1060	U1061	U1062	U1063	U1064	U1065	U1066	U1067	U1068	U1069	U1070	U1071	U1072	U1073	U1074	U1075	U1076	U1077	U1078	U1079	U1080	U1081	U1082	U1083	U1084	U1085	U1086	U1087	U1088	U1089	U1090	U1091	U1092	U1093	U1094	U1095	U1096	U1097	U1098	U1099	U1100	U1101	U1102	U1103	U1104	U1105	U1106	U1107	U1108	U1109	U1110	U1111	U1112	U1113	U1114	U1115	U1116	U1117	U1118	U1119	U1120	U1121	U1122	U1123	U1124	U1125	U1126	U1127	U1128	U1129	U1130	U1131	U1132	U1133	U1134	U1135	U1136	U1137	U1138	U1139	U1140	U1141	U1142	U1143	U1144	U1145	U1146	U1147	U1148	U1149	U1150	U1151	U1152	U1153	U1154	U1155	U1156	U1157	U1158	U1159	U1160	U1161	U1162	U1163	U1164	U1165	U1166	U1167	U1168	U1169	U1170	U1171	U1172	U1173	U1174	U1175	U1176	U1177	U1178	U1179	U1180	U1181	U1182	U1183	U1184	U1185	U1186	U1187	U1188	U1189	U1190	U1191	U1192	U1193	U1194	U1195	U1196	U1197	U1198	U1199	U1200	U1201	U1202	U1203	U1204	U1205	U1206	U1207	U1208	U1209	U1210	U1211	U1212	U1213	U1214	U1215	U1216	U1217	U1218	U1219	U1220	U1221	U1222	U1223	U1224	U1225	U1226	U1227	U1228	U1229	U1230	U1231	U1232	U1233	U1234	U1235	U1236	U1237	U1238	U1239	U1240	U1241	U1242	U1243	U1244	U1245	U1246	U1247	U1248	U1249	U1250	U1251	U1252	U1253	U1254	U1255	U1256	U1257	U1258	U1259	U1260	U1261	U1262	U1263	U1264	U1265	U1266	U1267	U1268	U1269	U1270	U1271	U1272	U1273	U1274	U1275	U1276	U1277	U1278	U1279	U1280	U1281	U1282	U1283	U1284	U1285	U1286	U1287	U1288	U1289	U1290	U1291	U1292	U1293	U1294	U1295	U1296	U1297	U1298	U1299	U1300	U1301	U1302	U1303	U1304	U1305	U1306	U1307	U1308	U1309	U1310	U1311	U1312	U1313	U1314	U1315	U1316	U1317	U1318	U1319	U1320
------------------------	--	----	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	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UPPER DECK PLAN

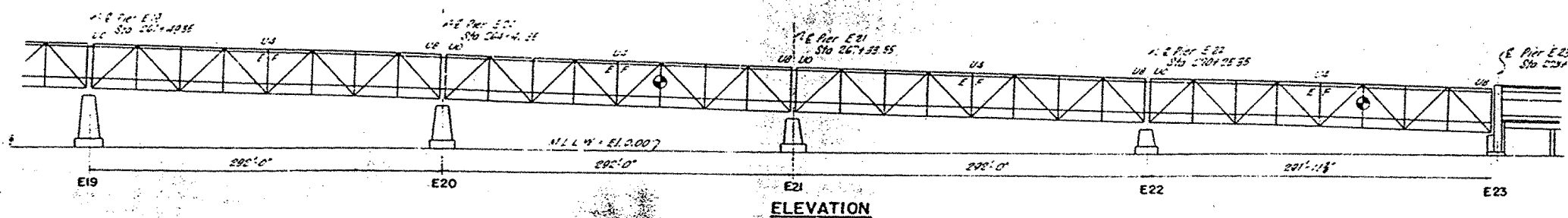
LOCATION DIAGRAM

LEGEND

- Existing line signs, center lights
- Existing deck drains
- * Indicates location where quantities, dimensions or denominations are changed due to revision.

NOTES

- Exact location of work will be determined in the field
- For work on deck spans, see Sheet No. 35.50

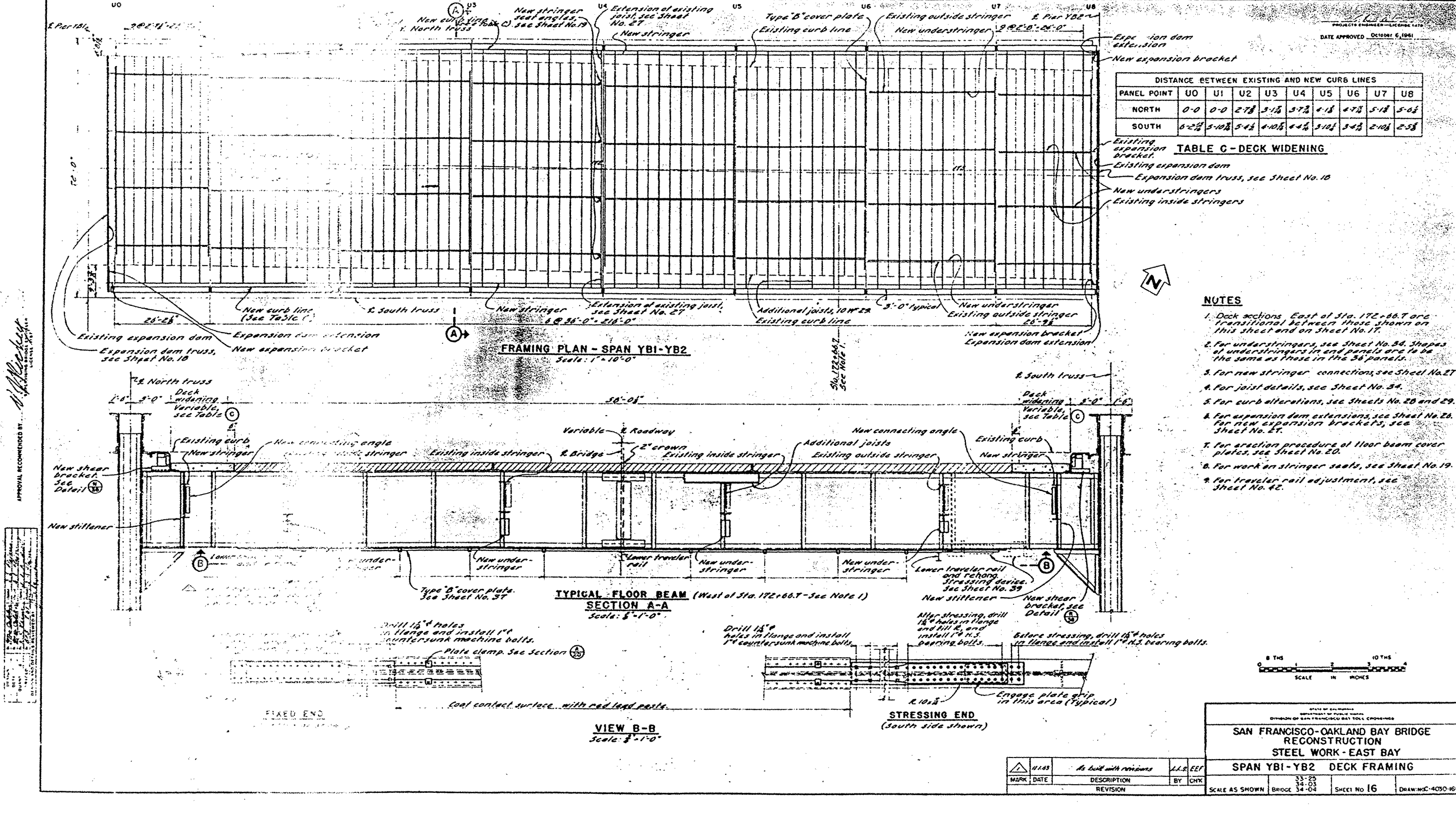


ELEVATION

TABULATION OF QUANTITIES

UPPER DECK PANEL POINT		U0	U1	U2	U3	U4	U5	U6	U7	U8	U9	U10	U11	U12	U13	U14	U15	U16	U17	U18	U19	U20	U21	U22	U23	U24	U25	U26	U27	U28	U29	U30	U31	U32	U33	U34	U35	U36	U37	U38	U39	U40	U41	U42	U43	U44	U45	U46	U47	U48	U49	U50	U51	U52	U53	U54	U55	U56	U57	U58	U59	U60	U61	U62	U63	U64	U65	U66	U67	U68	U69	U70	U71	U72	U73	U74	U75	U76	U77	U78	U79	U80	U81	U82	U83	U84	U85	U86	U87	U88	U89	U90	U91	U92	U93	U94	U95	U96	U97	U98	U99	U100	U101	U102	U103	U104	U105	U106	U107	U108	U109	U110	U111	U112	U113	U114	U115	U116	U117	U118	U119	U120	U121	U122	U123	U124	U125	U126	U127	U128	U129	U130	U131	U132	U133	U134	U135	U136	U137	U138	U139	U140	U141	U142	U143	U144	U145	U146	U147	U148	U149	U150	U151	U152	U153	U154	U155	U156	U157	U158	U159	U160	U161	U162	U163	U164	U165	U166	U167	U168	U169	U170	U171	U172	U173	U174	U175	U176	U177	U178	U179	U180	U181	U182	U183	U184	U185	U186	U187	U188	U189	U190	U191	U192	U193	U194	U195	U196	U197	U198	U199	U200	U201	U202	U203	U204	U205	U206	U207	U208	U209	U210	U211	U212	U213	U214	U215	U216	U217	U218	U219	U220	U221	U222	U223	U224	U225	U226	U227	U228	U229	U230	U231	U232	U233	U234	U235	U236	U237	U238	U239	U240	U241	U242	U243	U244	U245	U246	U247	U248	U249	U250	U251	U252	U253	U254	U255	U256	U257	U258	U259	U260	U261	U262	U263	U264	U265	U266	U267	U268	U269	U270	U271	U272	U273	U274	U275	U276	U277	U278	U279	U280	U281	U282	U283	U284	U285	U286	U287	U288	U289	U290	U291	U292	U293	U294	U295	U296	U297	U298	U299	U300	U301	U302	U303	U304	U305	U306	U307	U308	U309	U310	U311	U312	U313	U314	U315	U316	U317	U318	U319	U320	U321	U322	U323	U324	U325	U326	U327	U328	U329	U330	U331	U332	U333	U334	U335	U336	U337	U338	U339	U340	U341	U342	U343	U344	U345	U346	U347	U348	U349	U350	U351	U352	U353	U354	U355	U356	U357	U358	U359	U360	U361	U362	U363	U364	U365	U366	U367	U368	U369	U370	U371	U372	U373	U374	U375	U376	U377	U378	U379	U380	U381	U382	U383	U384	U385	U386	U387	U388	U389	U390	U391	U392	U393	U394	U395	U396	U397	U398	U399	U400	U401	U402	U403	U404	U405	U406	U407	U408	U409	U410	U411	U412	U413	U414	U415	U416	U417	U418	U419	U420	U421	U422	U423	U424	U425	U426	U427	U428	U429	U430	U431	U432	U433	U434	U435	U436	U437	U438	U439	U440	U441	U442	U443	U444	U445	U446	U447	U448	U449	U450	U451	U452	U453	U454	U455	U456	U457	U458	U459	U460	U461	U462	U463	U464	U465	U466	U467	U468	U469	U470	U471	U472	U473	U474	U475	U476	U477	U478	U479	U480	U481	U482	U483	U484	U485	U486	U487	U488	U489	U490	U491	U492	U493	U494	U495	U496	U497	U498	U499	U500	U501	U502	U503	U504	U505	U506	U507	U508	U509	U510	U511	U512	U513	U514	U515	U516	U517	U518	U519	U520	U521	U522	U523	U524	U525	U526	U527	U528	U529	U530	U531	U532	U533	U534	U535	U536	U537	U538	U539	U540	U541	U542	U543	U544	U545	U546	U547	U548	U549	U550	U551	U552	U553	U554	U555	U556	U557	U558	U559	U560	U561	U562	U563	U564	U565	U566	U567	U568	U569	U570	U571	U572	U573	U574	U575	U576	U577	U578	U579	U580	U581	U582	U583	U584	U585	U586	U587	U588	U589	U590	U591	U592	U593	U594	U595	U596	U597	U598	U599	U600	U601	U602	U603	U604	U605	U606	U607	U608	U609	U610	U611	U612	U613	U614	U615	U616	U617	U618	U619	U620	U621	U622	U623	U624	U625	U626	U627	U628	U629	U630	U631	U632	U633	U634	U635	U636	U637	U638	U639	U640	U641	U642	U643	U644	U645	U646	U647	U648	U649	U650	U651	U652	U653	U654	U655	U656	U657	U658	U659	U660	U661	U662	U663	U664	U665	U666	U667	U668	U669	U670	U671	U672	U673	U674	U675	U676	U677	U678	U679	U680	U681	U682	U683	U684	U685	U686	U687	U688	U689	U690	U691	U692	U693	U694	U695	U696	U697	U698	U699	U700	U701	U702	U703	U704	U705	U706	U707	U708	U709	U710	U711	U712	U713	U714	U715	U716	U717	U718	U719	U720	U721	U722	U723	U724	U725	U726	U727	U728	U729	U730	U731	U732	U733	U734	U735	U736	U737	U738	U739	U740	U741	U742	U743	U744	U745	U746	U747	U748	U749	U750	U751	U752	U753	U754	U755	U756	U757	U758	U759	U760	U761	U762	U763	U764	U765	U766	U767	U768	U769	U770	U771	U772	U773	U774	U775	U776	U777	U778	U779	U780	U781	U782	U783	U784	U785	U786	U787	U788	U789	U790	U791	U792	U793	U794	U795	U796	U797	U798	U799	U800	U801	U802	U803	U804	U805	U806	U807	U808	U809	U810	U811	U812	U813	U814	U815	U816	U817	U818	U819	U820	U821	U822	U823	U824	U825	U826	U827	U828	U829	U830	U831	U832	U833	U834	U835	U836	U837	U838	U839	U840	U841	U842	U843	U844	U845	U846	U847	U848	U849	U850	U851	U852	U853	U854	U855	U856	U857	U858	U859	U860	U861	U862	U863	U864	U865	U866	U867	U868	U869	U870	U871	U872	U873	U874	U875	U876	U877	U878	U879	U880	U881	U882	U883	U884	U885	U886	U887	U888	U889	U890	U891	U892	U893	U894	U895	U896	U897	U898	U899	U900	U901	U902	U903	U904	U905	U906	U907	U908	U909	U910	U911	U912	U913	U914	U915	U916	U917	U918	U919	U920	U921	U922	U923	U924	U925	U926	U927	U928	U929	U930	U931	U932	U933	U934	U935	U936	U937	U938	U939	U940	U941	U942	U943	U944	U945	U946	U947	U948	U949	U950	U951	U952	U953	U954	U955	U956	U957	U958	U959	U960	U961	U962	U963	U964	U965	U966	U967	U968	U969	U970	U971	U972	U973	U974	U975	U976	U977	U978	U979	U980	U981	U982	U983	U984	U985	U986	U987	U988	U989	U990	U991	U992	U993	U994	U995	U996	U997	U998	U999	U1000	U1001	U1002	U1003	U1004	U1005	U1006	U1007	U1008	U1009	U1010	U1011	U1012	U1013	U1014	U1015	U1016	U1017	U1018	U1019	U1020	U1021	U1022	U1023	U1024	U1025	U1026	U1027	U1028	U1029	U1030	U1031	U1032	U1033	U1034	U1035	U1036	U1037	U1038	U1039	U1040	U1041	U1042	U1043	U1044	U1045	U1046	U1047	U1048	U1049	U1050	U1051	U1052	U1053	U1054	U1055	U1056	U1057	U1058	U1059	U1060	U1061	U1062	U1063	U1064	U1065	U1066	U1067	U1068	U1069	U1070	U1071	U1072	U1073	U1074	U1075	U1076	U1077	U1078	U1079	U1080	U1081	U1082	U1083	U1084	U1085	U1086	U1087	U1088	U1089	U1090	U1091	U1092	U1093	U1094	U1095	U1096	U1097	U1098	U1099	U1100	U1101	U1102	U1103	U1104	U1105	U1106	U1107	U1108	U1109	U1110	U1111	U1112	U1113	U1114	U1115	U1116	U1117	U1118	U1119	U1120	U1121	U1122	U1123	U1124	U1125	U1126	U1127	U1128	U1129	U1130	U1131	U1132	U1133	U1134	U1135	U1136	U1137	U1138	U1139	U1140	U1141	U1142	U1143	U1144	U1145	U1146	U1147	U1148	U1149	U1150	U1151	U1152	U1153	U1154	U1155	U1156	U1157	U1158	U1159	U1160	U1161	U1162	U1163	U1164	U1165	U1166	U1167	U1168	U1169	U1170	U1171	U1172	U1173	U1174	U1175	U1176	U1177	U1178	U1179	U1180	U1181	U1182	U1183	U1184	U1185	U1186	U1187	U1188	U1189	U1190	U1191	U1192	U1193	U1194	U1195	U1196	U1197	U1198	U1199	U1200	U1201	U1202	U1203	U1204	U1205	U1206	U1207	U1208	U1209	U1210	U1211	U1212	U1213	U1214	U1215	U1216	U1217	U1218	U1219	U1220	U1221	U1222	U1223	U1224	U1225	U1226	U1227	U1228	U1229	U1230	U1231	U1232	U1233	U1234	U1235	U1236	U1237	U1238	U1239	U1240	U1241	U1242	U1243	U1244	U1245	U1246	U1247	U1248	U1249	U1250	U1251	U1252	U1253	U1254	U1255	U1256	U1257	U1258	U1259	U1260	U1261	U1262	U1263	U1264	U1265	U1266	U1267	U1268	U1269	U1270	U1271	U1272	U1273	U1274	U1275	U1276	U1277	U1278	U1279	U1280	U1281	U1282	U1283	U1284	U1285
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UNEMPLOYED	33	21		
SCALE 1:50'	34	20		
DATE	34	24	15	DRAWING C-4030



DISTANCE BETWEEN EXISTING AND NEW CURB LINES									
PANEL POINT	U0	U1	U2	U3	U4	U5	U6	U7	U8
NORTH	0-0	0-0	2-7 1/2	5-1 1/2	5-7 1/2	6-1 1/2	6-7 1/2	5-1 1/2	5-6 1/2
SOUTH	0-2 1/2	5-10 1/2	5-4 1/2	4-10 1/2	4-4 1/2	5-10 1/2	5-4 1/2	2-10 1/2	2-5 1/2

TABLE C - DECK WIDENING

FRAMING PLAN - SPAN YB1-YB2
Scale: 1" = 10'-0"

TYPICAL FLOOR BEAM SECTION A-A
Scale: 3/8" = 1'-0"

VIEW B-B
Scale: 3/8" = 1'-0"

- NOTES**
- 1. Deck sections East of Sta. 172+86.7 are transitional between those shown on this sheet and on Sheet No. 17.
 - 2. For understringers, see Sheet No. 36. Shapes of understringers in end panels are to be the same as those in the 36 panels.
 - 3. For new stringer connections, see Sheet No. 27.
 - 4. For joist details, see Sheet No. 34.
 - 5. For curb alterations, see Sheets No. 20 and 29.
 - 6. For expansion dam extensions, see Sheet No. 20. For new expansion brackets, see Sheet No. 27.
 - 7. For erection procedure of floor beam cover plates, see Sheet No. 20.
 - 8. For work on stringer seats, see Sheet No. 19.
 - 9. For traveler rail adjustment, see Sheet No. 42.



STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS

SAN FRANCISCO-OAKLAND BAY BRIDGE
RECONSTRUCTION
STEEL WORK - EAST BAY
SPAN YB1-YB2 DECK FRAMING

DATE	11-1-53	As built with revisions	BY	J.L.R. EEF
MARK	DATE	DESCRIPTION	BY	CHK
		REVISION		

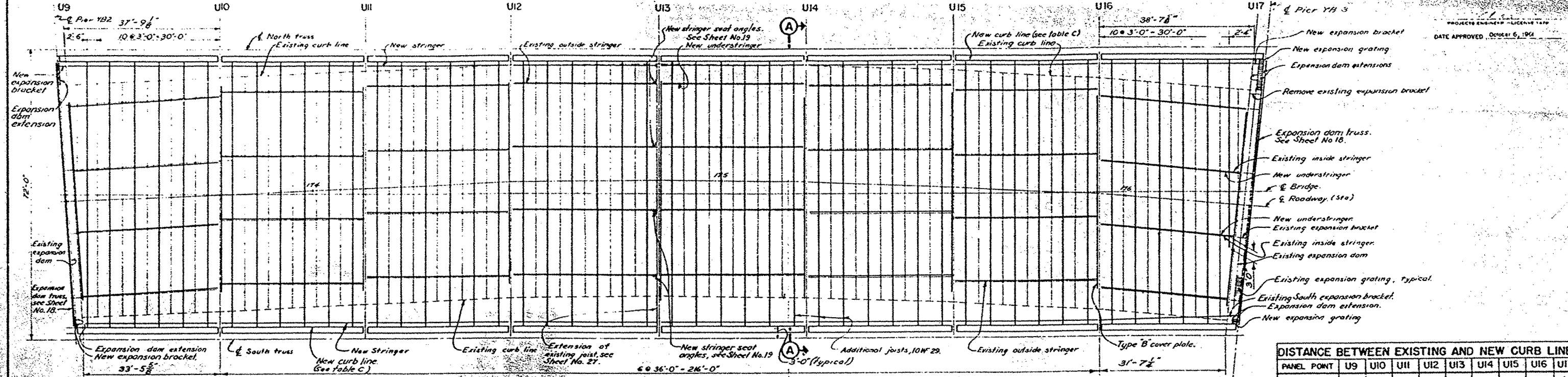
SCALE AS SHOWN

BRIDGE 33-25
34-03
34-04

SHEET No 16

DRAWING 4030-16R

APPROVAL RECOMMENDED BY: *[Signature]*
DATE: 11-1-53
PROJECT: SAN FRANCISCO-OAKLAND BAY BRIDGE RECONSTRUCTION
SHEET: 16 OF 16



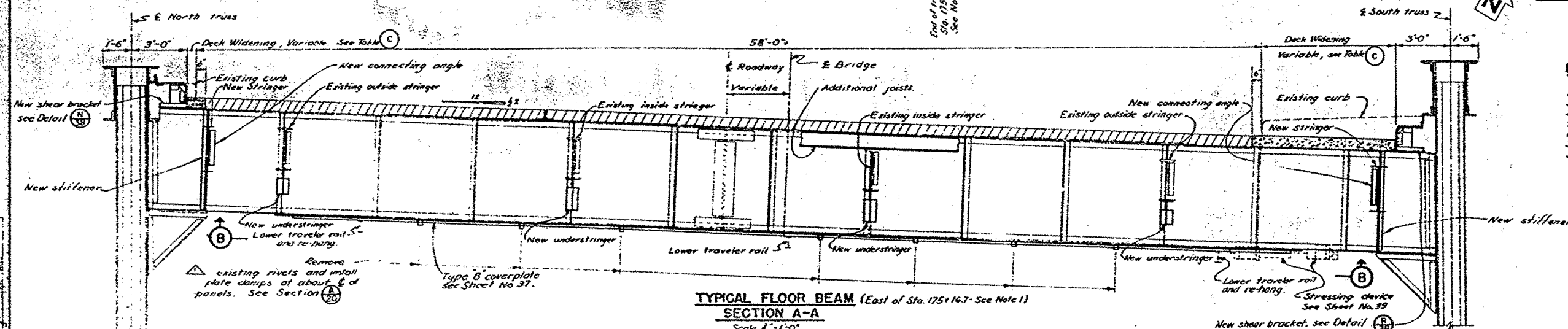
FRAMING PLAN-SPAN YB2-YB3
Scale 1"=10'-0"

DISTANCE BETWEEN EXISTING AND NEW CURB LINES									
PANEL POINT	U9	U10	U11	U12	U13	U14	U15	U16	U17
NORTH	5'-7 1/2"	3'-10 1/2"	2'-2 1/2"	0'-11 1/2"	0'-6"	0'-10 1/2"	2'-2"	4'-3 1/2"	7'-4 1/2"
SOUTH	2'-6 1/2"	4'-0 1/2"	5'-8 1/2"	7'-0 1/2"	7'-6"	7'-0 1/2"	5'-9 1/2"	3'-6 1/2"	0'-10 1/2"

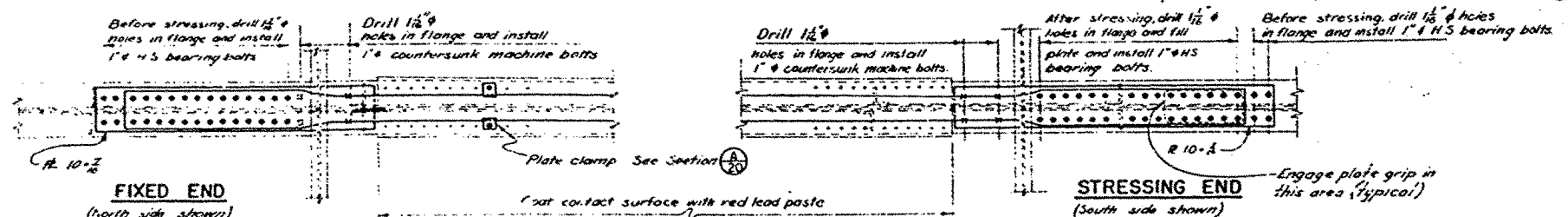
TABLE C-DECK WIDENING

NOTES

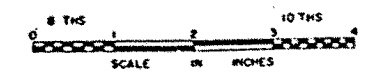
- Deck sections West of Sta 175+16.7 are transitional between those shown on this sheet and on Sheet No. 16.
- Notes 2, 3, 4, 7, 8 and 9 on Sheet No. 16 apply except that understringers in and panel at YB3 are shaped as shown on Sheet No. 19.
- For work on existing expansion brackets at Pier YB3, see Sheet No. 18. For new expansion grating and expansion dam extensions at Pier YB3, see Sheet No. 26. For new expansion brackets, see Sheet No. 27.
- For curb alterations, see Sheet No. 28.



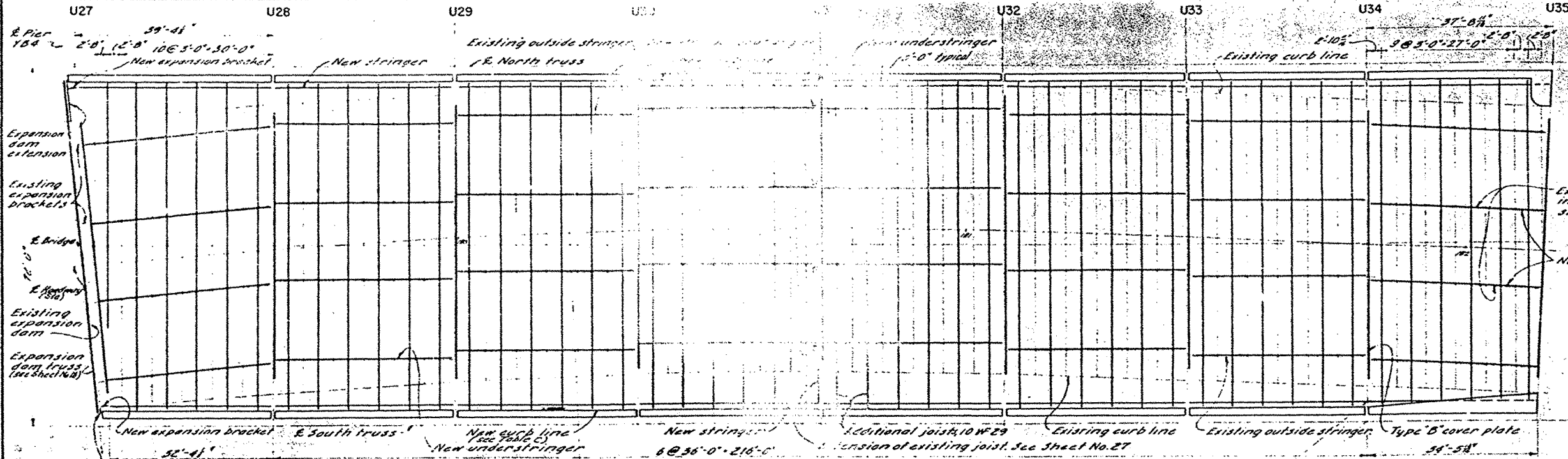
TYPICAL FLOOR BEAM SECTION A-A
Scale 1"=1'-0"



VIEW B-B
Scale 3/4"=1'-0"



STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS			
SAN FRANCISCO-OAKLAND BAY BRIDGE RECONSTRUCTION STEEL WORK-EAST BAY			
SPAN YB2-YB3		DECK FRAMING	
33-25	33-25	34-03	34-04
SCALE AS SHOWN		BY	CHK
DATE		REVISION	
1.1.43		As built with permission	
1.1.43		EEF	
MARK		BY	
DATE		REVISION	
33-25		34-03	
34-03		34-04	
SHEET NO 17		DRAWING 4030-17R	



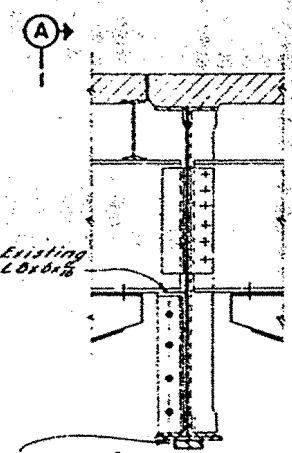
DISTANCE BETWEEN EXISTING AND NEW CURB LINES									
PANEL POINT	U27	U28	U29	U30	U31	U32	U33	U34	U35
NORTH	7' 1 1/2"	4' 4 1/2"	2' 2 1/2"	0' 11 1/2"	0' 6"	0' 10 1/2"	2' 2 1/2"	3' 9 1/2"	5' 0"
SOUTH	0' 9 1/2"	5' 4 1/2"	5' 0 1/2"	7' 0 1/2"	7' 6"	7' 0 1/2"	5' 9 1/2"	4' 1 1/2"	0' 0"

TABLE C - DECK WIDENING

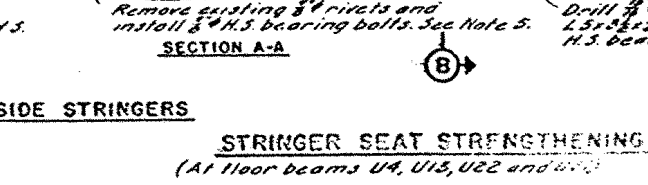
NOTES

1. For deck sections West of 3 1/2 180+22.0 see Section Deck sections East of 3 1/2 180+22.0 are transitions between those shown on Sheet No. 16 and 17.
2. Notes 2, 3, 4, 7, 8 and 9 on Sheet No. 16 apply.
3. For expansion dam extensions see Sheet No. 26. For new expansion brackets see Sheet No. 27.
4. For curb alterations, see Sheets No. 28 and 30.
5. Replace one rivet at a time.

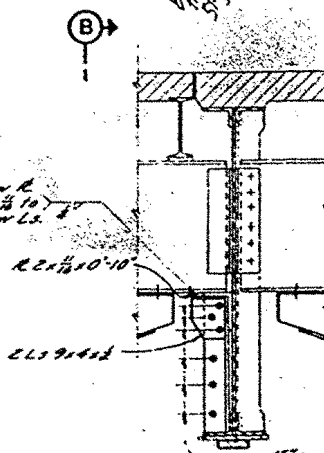
FRAMING PLAN SPAN YB4-EI
Scale: 1" = 10'-0"



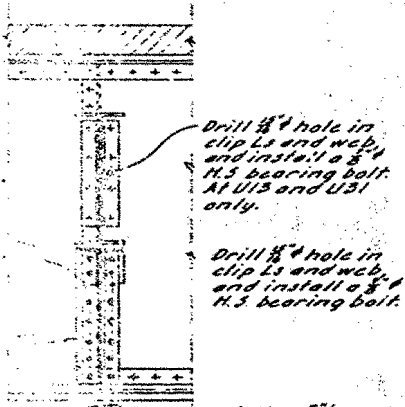
OUTSIDE STRINGERS



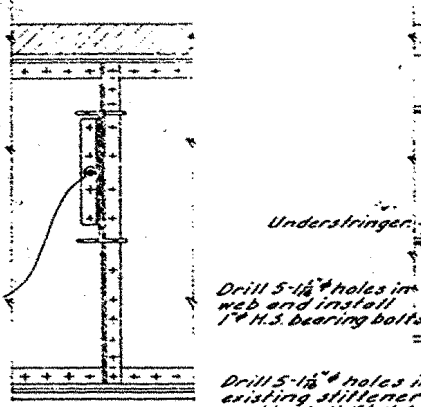
STRINGER SEAT STRENGTHENING
(At floor beams U4, U13, U22 and U31)



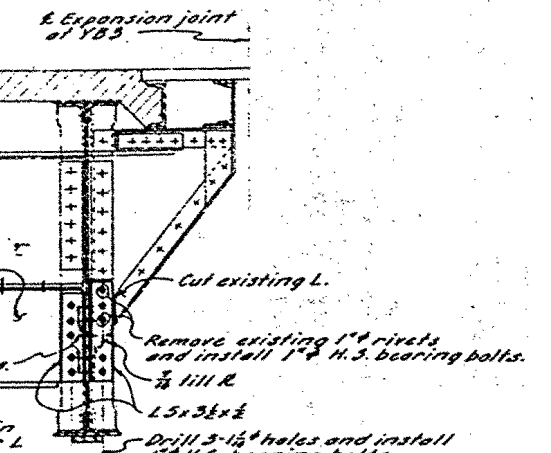
INSIDE STRINGERS



CLIP ANGLE STRENGTHENING
(At floor beams U10, U11, U14, U15, U16, U20, U29, U30, U32, U33 and U34)



EXPANSION BRACKETS AT YB3
(Total 0)



Note: Strengthen all existing bracket connections at YB3, as shown, except the brackets which have no existing stringers behind them.



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**SAN FRANCISCO-OAKLAND BAY BRIDGE
RECONSTRUCTION
STEEL WORK-EAST BAY**

SPAN YB4-EI DECK FRAMING AND DETAILS

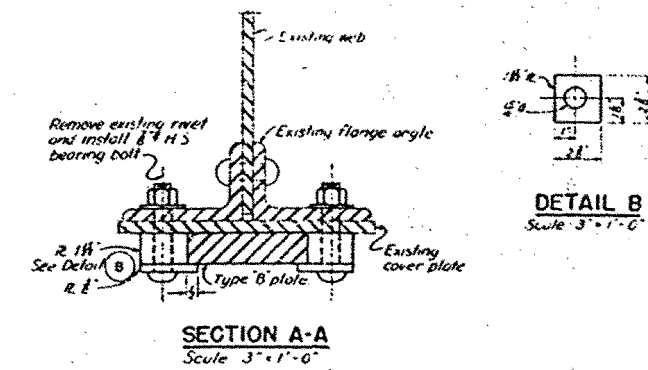
UNLESS NOTED SCALE 3/4" = 1'-0"	BRIDGE 33-25 34-03	SHEET NO 19	DRAWING C 4030-19R
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APPROVAL RECOMMENDED BY: *[Signature]*
DATE: *[Date]*

DESIGNER: *[Signature]*
CHECKER: *[Signature]*
DATE: *[Date]*

NOTES

1. For stringer seat strengthening see Sheet No. 22.
2. For understringers see Sheet No. 21.
3. For traveler rail adjustment see Sheet No. 42.
4. For panel point designation see Sheet No. 20 and 21.



SUGGESTED ERECTION PROCEDURE FOR FLOOR BEAM COVER PLATES

1. Lower traveler rail to clear plate.
2. Drill flange holes at fixed end through template.
3. Clean contact areas of flange angles as specified.
4. Coat specified contact area of cover plate with red lead paste.
5. Erect cover plate, bolt fixed end to floor beam flange.
6. Erect stressing device (see Sheet No. 39).
7. Stress cover plate by jacking in increments, allowing time for inspection after each increment. Lock jacks when the specified initial prestress is reached (see Sheets No. 6-15).
Note: Prestress tolerances: +5%, no understress.
8. While plate is held under full prestress drill holes in floor beam flange, using accessible holes of plate as template. Install H.S. bearing bolts.
Note: If plates cannot be bolted tight due to presence of burrs or trapped grilling refuse, remove bolts, release jacks, separate plate from flange, clean contact surfaces, refasten and rebolt.
9. Remove stressing device, drill flange holes thru remaining plate holes and install remaining bolts.



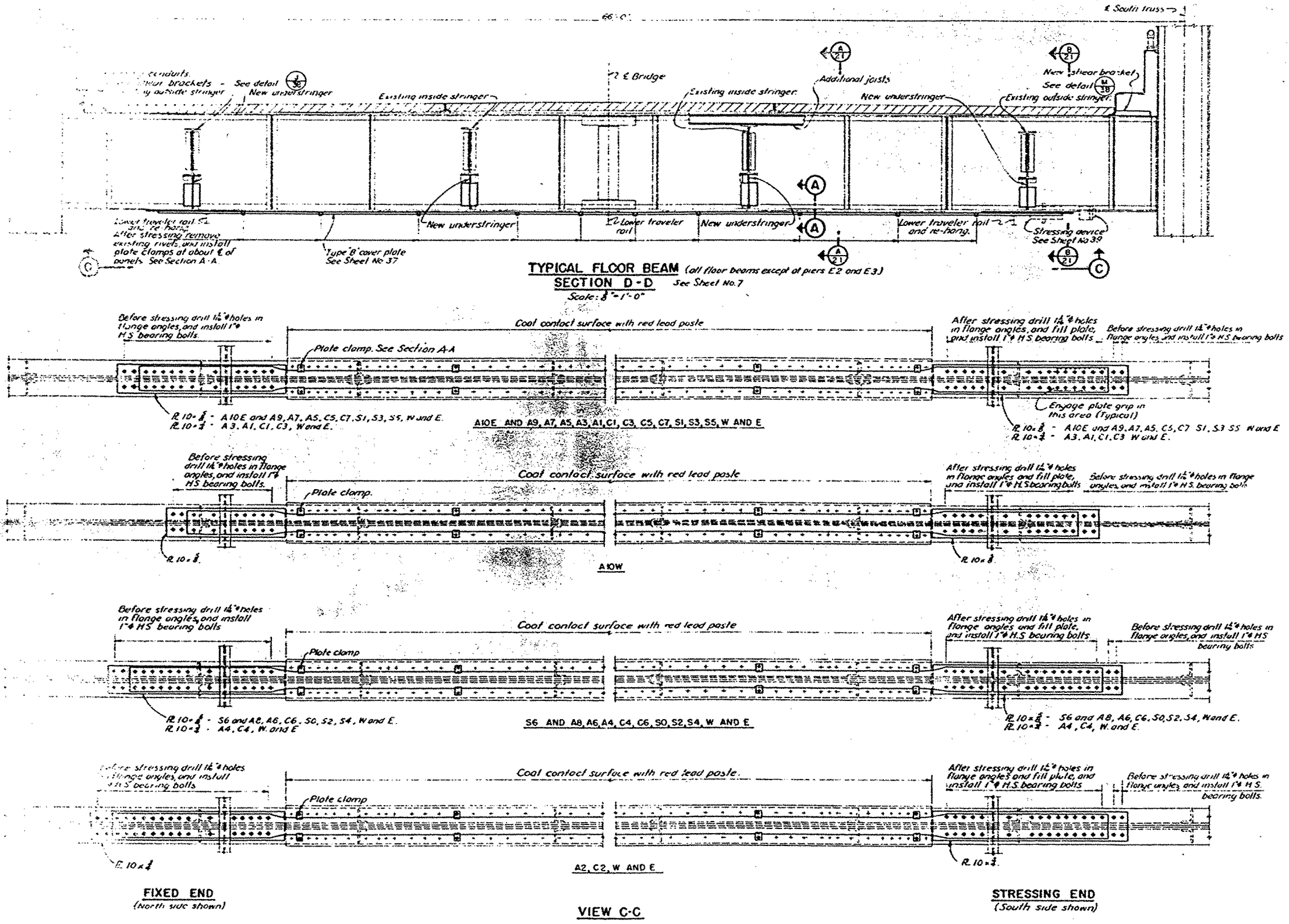
STATE OF CALIFORNIA
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DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS

**SAN FRANCISCO-OAKLAND BAY BRIDGE
RECONSTRUCTION
STEEL WORK - EAST BAY**

CANTILEVER STRUCTURE-FLOOR BEAMS

UNLESS NOTED	33-25	SHEET NO. 20	DRAWING 4030 20R
SCALE 3/4" = 1'-0"	BRIDGE 34-04		

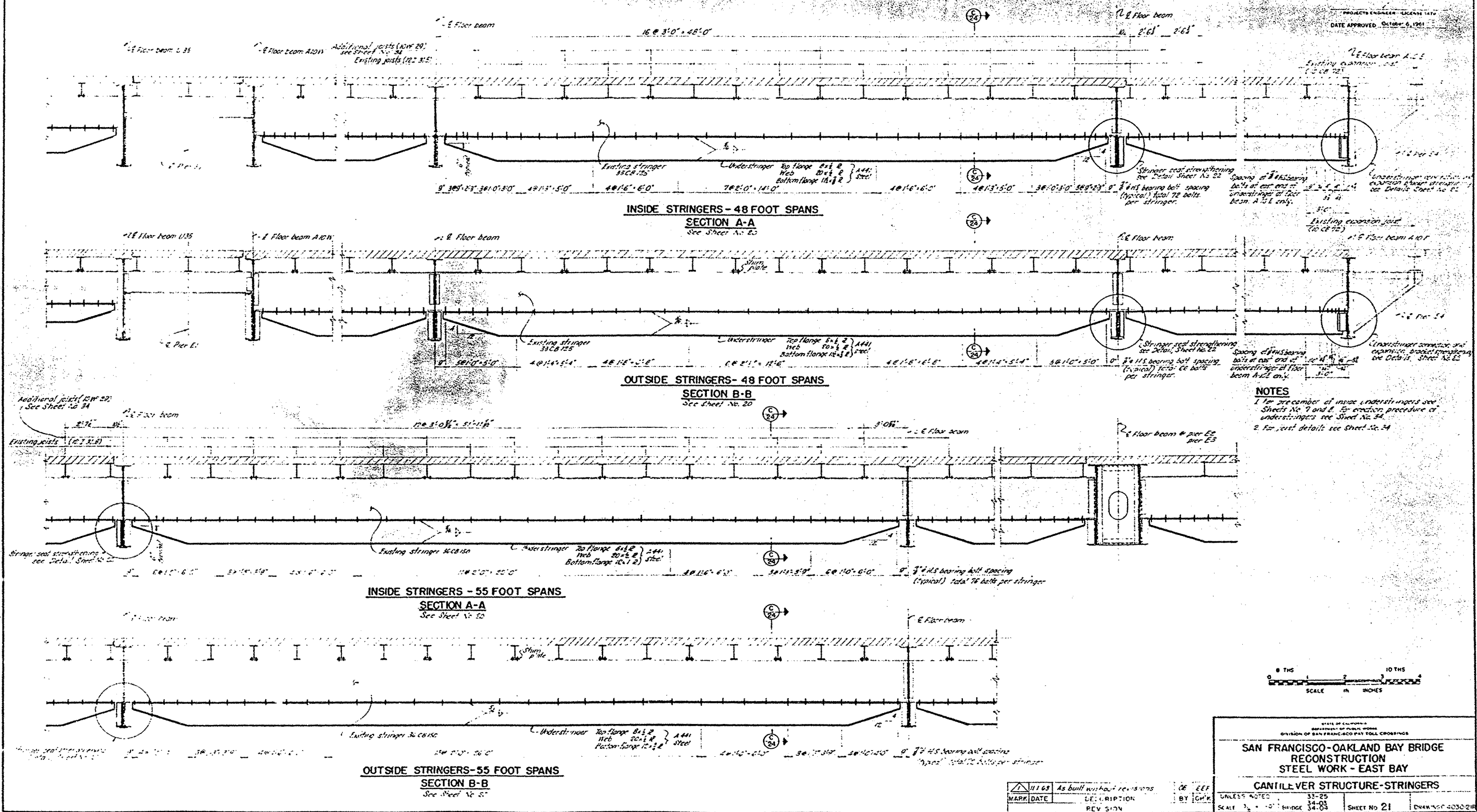
MARK	DATE	DESCRIPTION	BY	CHK
11.63		As built without revisions	CB	EEF



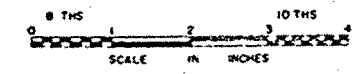
APPROVAL RECOMMENDED BY
W. H. Lee
LICENSED PROFESSIONAL ENGINEER

APPROVAL RECOMMENDED BY
J. A. Beckley
SENIOR CIVIL ENGINEER
CALIFORNIA

PROJECT ENGINEER - LICENSE 1470
DATE APPROVED - OCTOBER 6, 1961



NOTES
1. For dimensions of inside understringers see Sheets No. 7 and 8. For erection procedure of understringers see Sheet No. 34.
2. For joist details see Sheet No. 34.



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**SAN FRANCISCO-OAKLAND BAY BRIDGE
RECONSTRUCTION
STEEL WORK - EAST BAY**

CANTILEVER STRUCTURE-STRINGERS

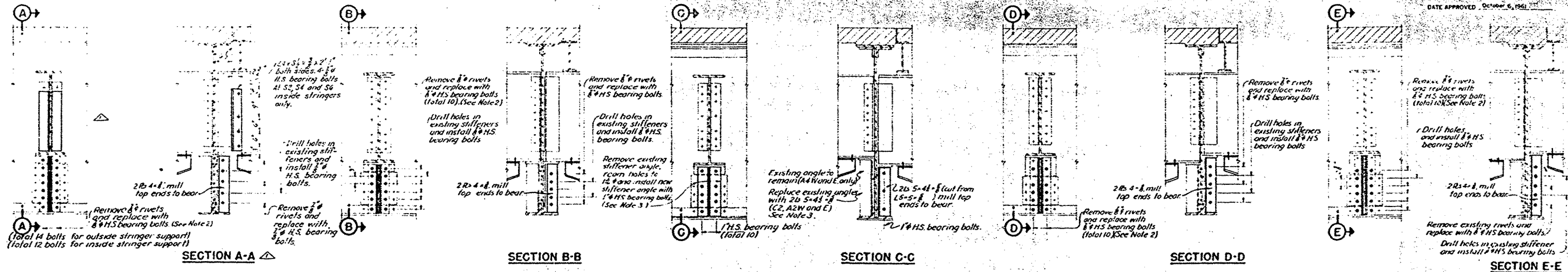
MARK	DATE	DESCRIPTION	REV	BY
11163	As built	without revisions		CE
				EEF
				CHW

UNLESS NOTED
SCALE 3/4" = 1'-0" BRIDGE 34-03

33-25
34-03

SHEET NO 21

DRAWING 4030-21R



SECTION A-A **STRINGERS**
(At floor beams C6, S0, S2, S4, W and E and S6)

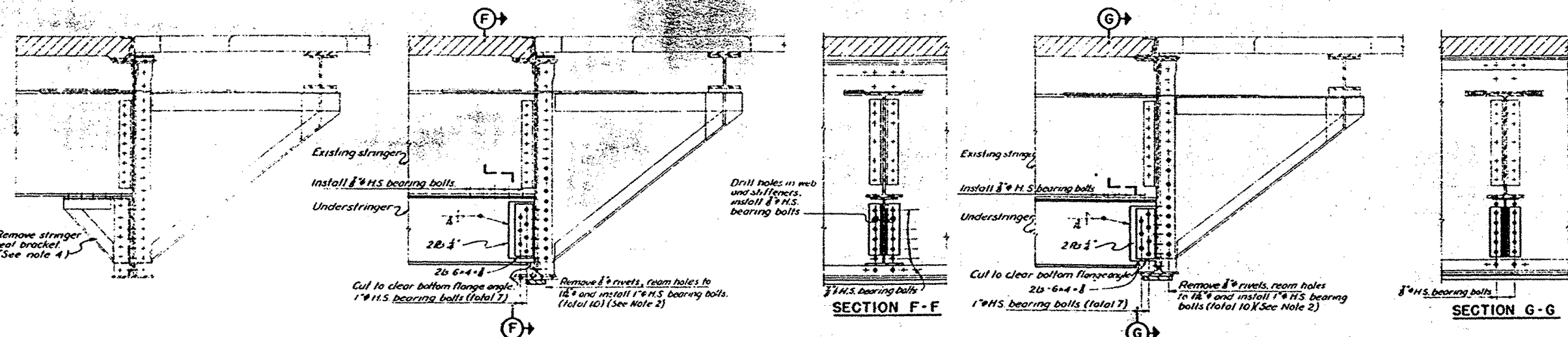
SECTION B-B **OUTSIDE STRINGERS**
(At floor beams C2, A2, W and E)

SECTION C-C **INSIDE STRINGERS**
(At floor beams C2, A2, A4 W and E)
OUTSIDE STRINGERS
(At floor beams A4 W and E)

SECTION D-D **OUTSIDE STRINGERS**
(At floor beams C4 W and E)

SECTION E-E **INSIDE STRINGERS**
(At floor beams C4, W and E)

STRINGER SEAT STRENGTHENING



EXISTING EXPANSION BRACKET

SECTION F-F **INSIDE EXPANSION BRACKETS**

SECTION G-G **OUTSIDE EXPANSION BRACKETS**

EXPANSION BRACKET STRENGTHENING AT PIER E4

- NOTES**
- 1 For designation and location of panel points (eg. A2, C2), see sheet Nos 7 and 8.
 - 2 Replace one rivet at a time.
 - 3 Replace one stiffener angle at a time. Provide temporary support during erection.
 - 4 Provide temporary bracing for the expansion bracket during and after removal of stringer seat bracket.



11:63	As built with revisions	06	EEF
MARK	DATE	DESCRIPTION	BY
		REVISION	

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**SAN FRANCISCO-OAKLAND BAY BRIDGE
RECONSTRUCTION
STEEL WORK - EAST BAY**

CANTILEVER STRUCTURE-DETAILS

UNLESS NOTED: 33-25
34-03
34-04

SCALE 3/4" = 1'-0" BRIDGE

SHEET No 22

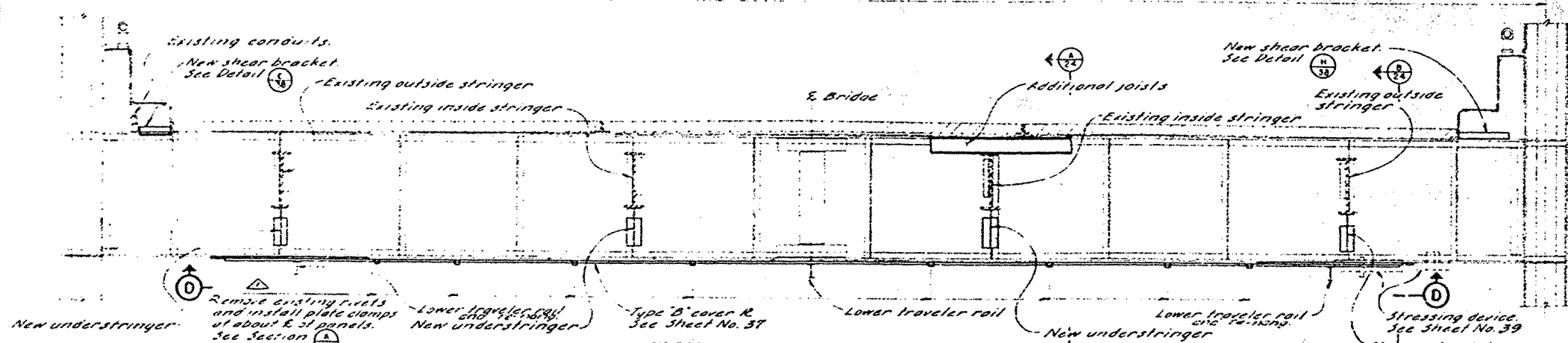
DRAWING: 4030-22R

E. North truss

66'-0"

E. South truss

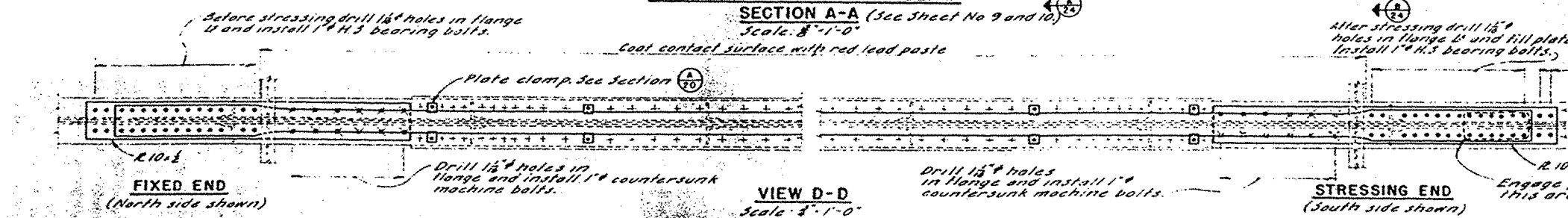
PROJECT ENGINEER - LICENSE NO. 10000
DATE APPROVED - October 6, 1961



TYPICAL INTERIOR FLOOR BEAM

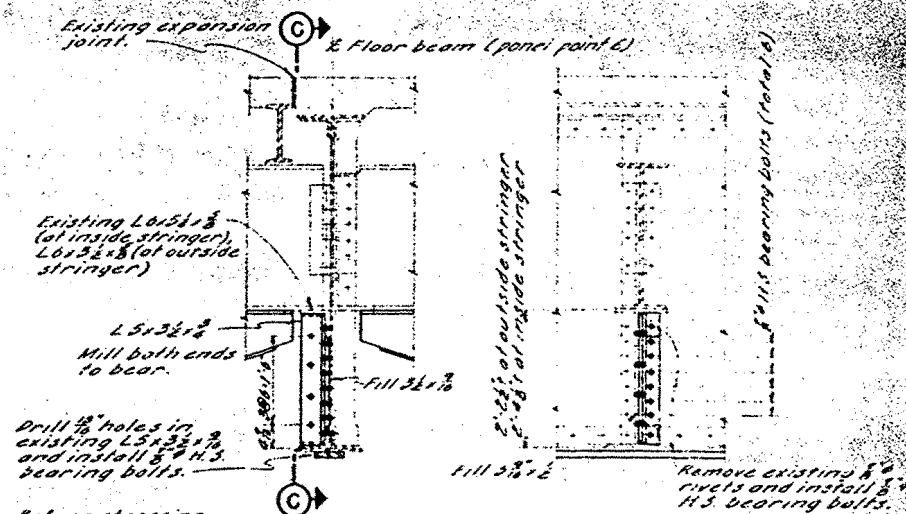
SECTION A-A (See Sheet No. 9 and 10)

Scale: 8'-1'-0"



VIEW D-D

Scale: 8'-1'-0"



SECTION C-C

Scale: 8'-1'-0"

STRINGER SEAT STRENGTHENING

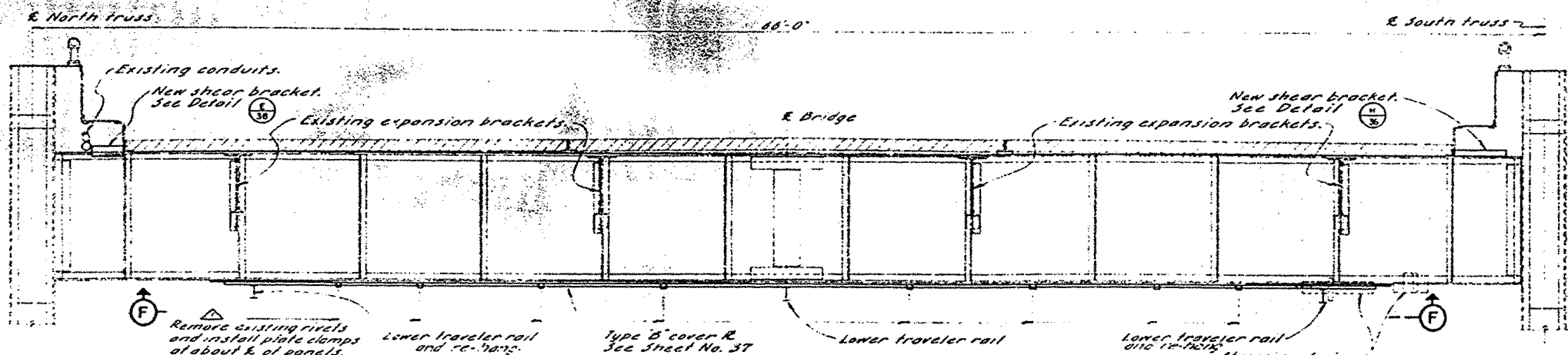
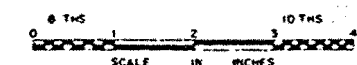
DETAIL B

(At interior expansion joints only, C4-C9)

Scale: 8'-1'-0"

NOTES

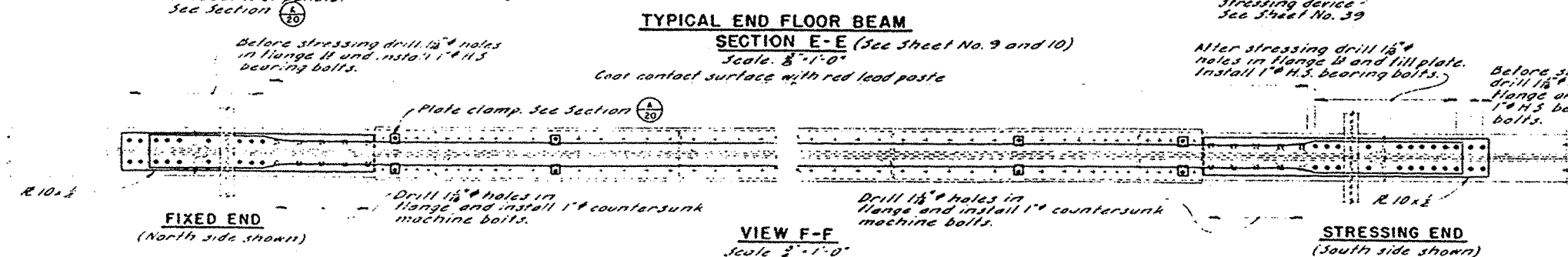
1. For erection procedure of cover plates, see Sheet No. 20.
2. For understringers, see Sheet No. 24.
3. For traveler rail adjustment, see Sheet No. 43.



TYPICAL END FLOOR BEAM

SECTION E-E (See Sheet No. 9 and 10)

Scale: 8'-1'-0"



VIEW F-F

Scale: 8'-1'-0"

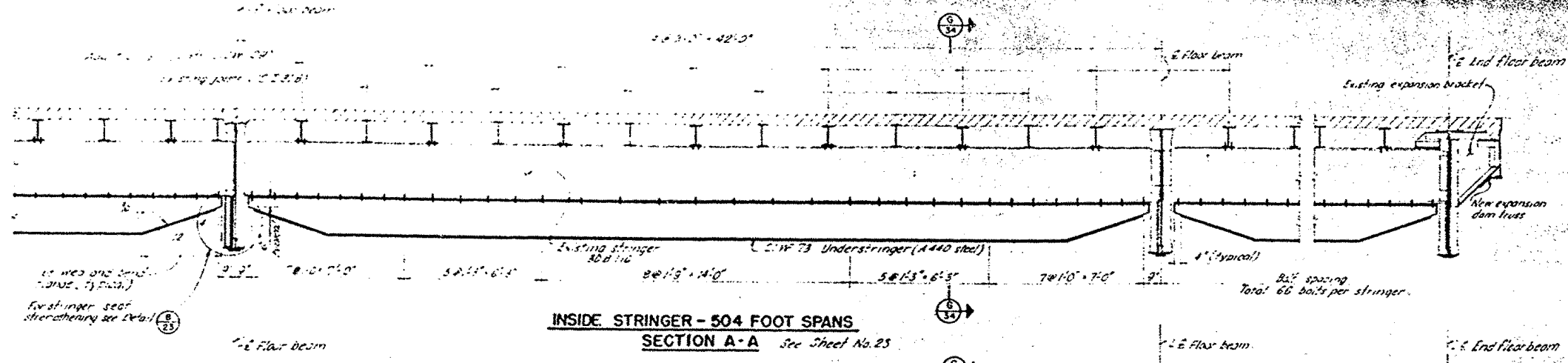
MARK	DATE	DESCRIPTION	BY	CHK
1163		As built with revisions	78	EEF
		REVISION		

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF SAN FRANCISCO BAY TOLL CAHOSSIDS

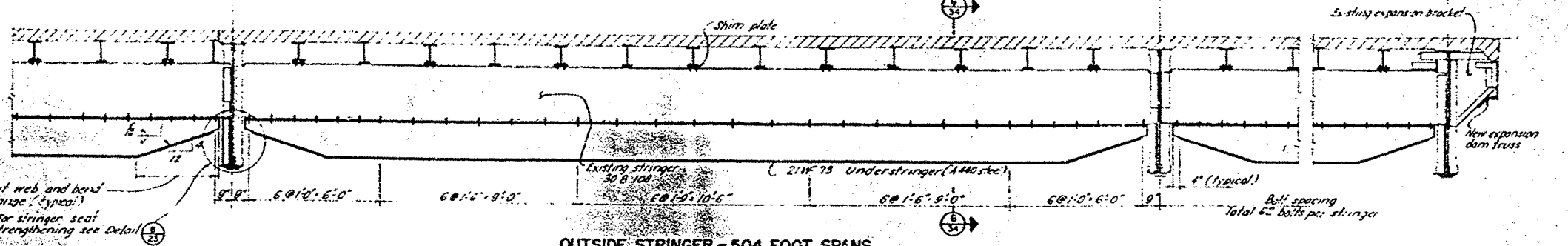
SAN FRANCISCO - OAKLAND BAY BRIDGE
RECONSTRUCTION
STEEL WORK - EAST BAY

504 FOOT SPANS - FLOOR BEAMS

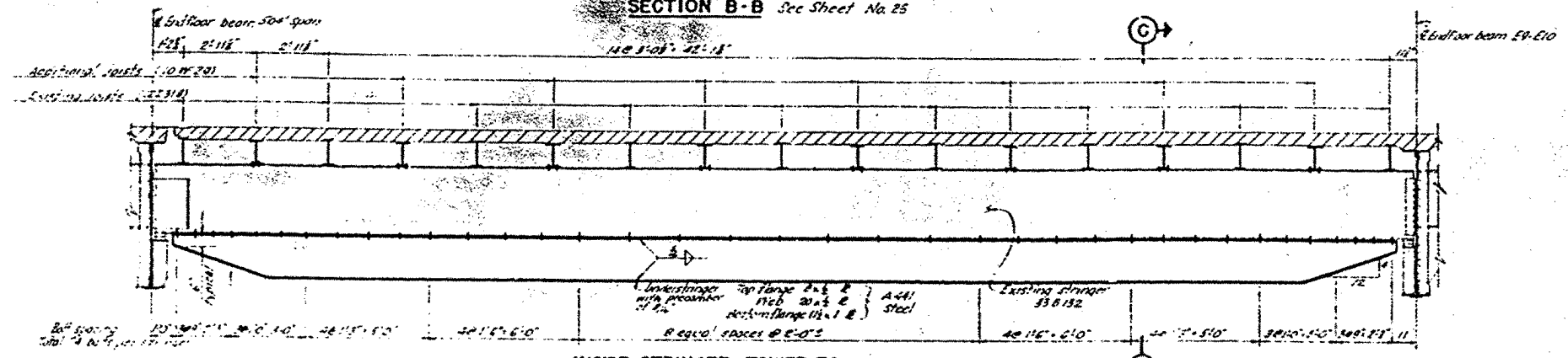
SCALE AS SHOWN | BRIDGE 34-04 | SHEET NO 23 | DRAWING C-4030-23M



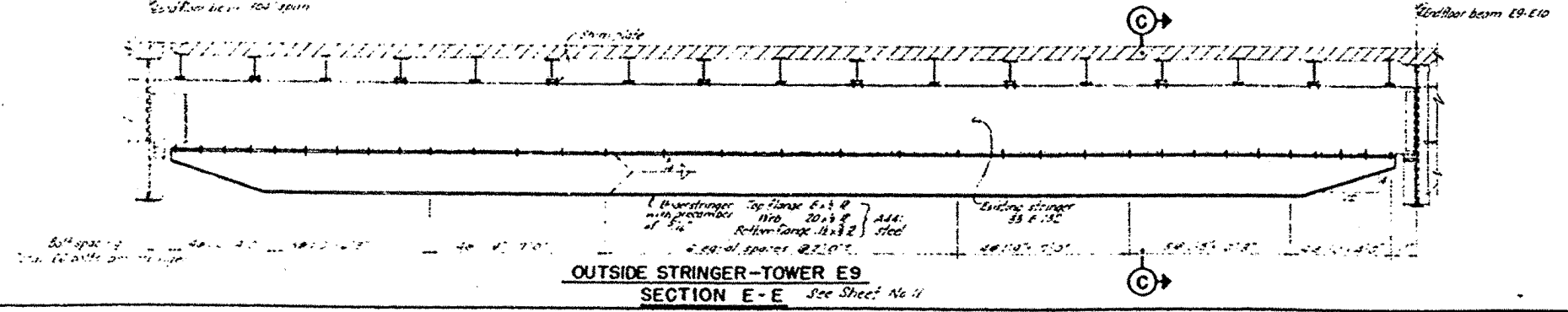
INSIDE STRINGER - 504 FOOT SPANS
SECTION A-A See Sheet No. 25



OUTSIDE STRINGER - 504 FOOT SPANS
SECTION B-B See Sheet No. 25

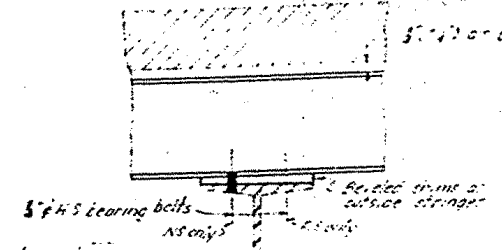


INSIDE STRINGER - TOWER E9
SECTION C-C See Sheet No. 11



OUTSIDE STRINGER - TOWER E9
SECTION D-D See Sheet No. 11

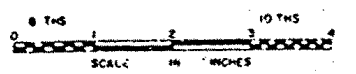
Notes:
Tower E9 inside and outside stringers - 12 x 12
Conifer structure 12 spans, inside and outside stringers - 33 CB 125
Conifer structure 85 spans, inside and outside stringers - 36 CB 150



SECTION E-E
Scale 1/2" = 1'-0"

NOTES

1. For erection procedure of understringers see Sheet No. 34
2. For additional notes see Sheet No. 34
3. For expansion dam trusses at E9, E6, E7 and E8 see Sheet No. 34



SUPPLEMENTAL CONTRACT DRAWING

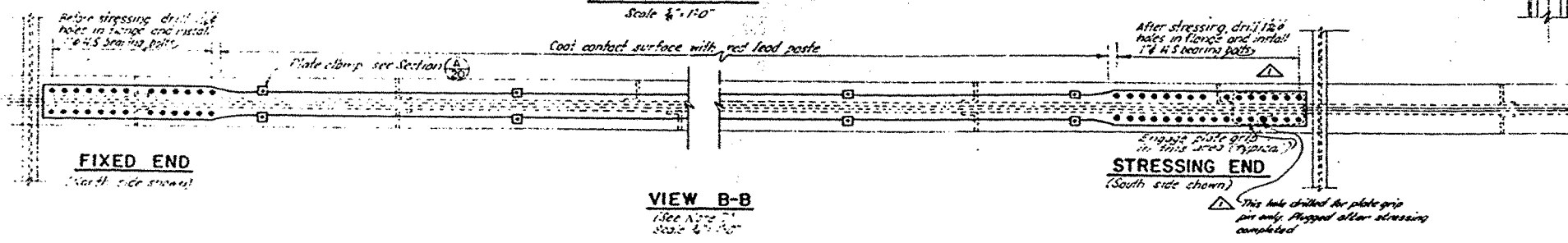
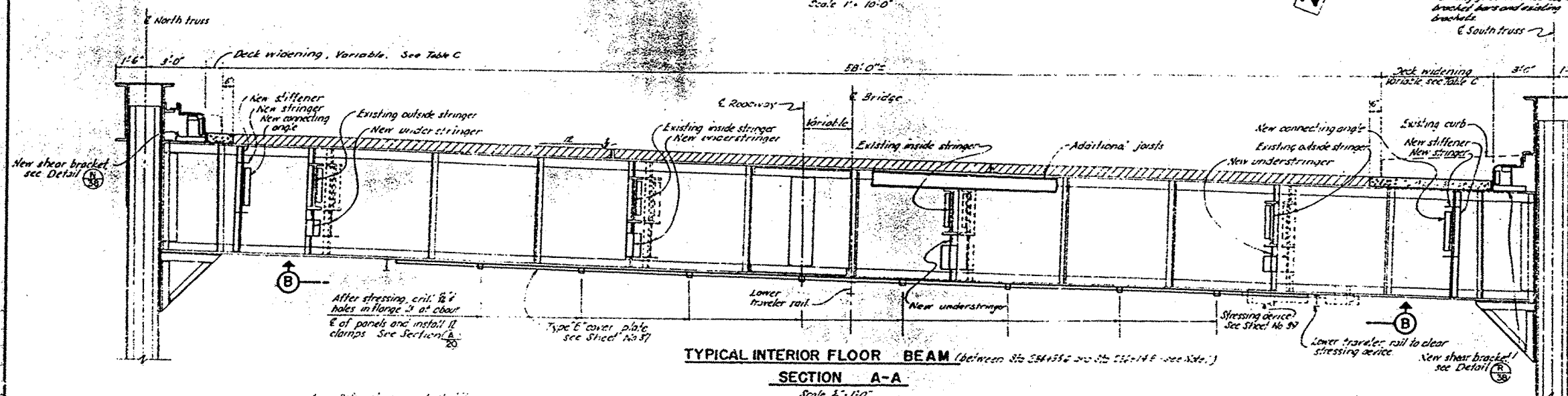
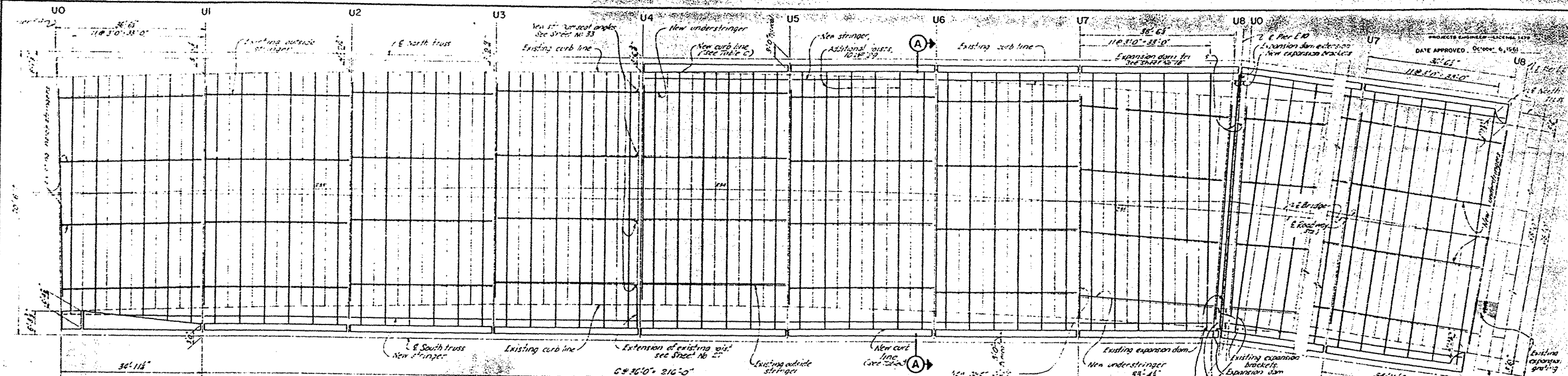
STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
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**SAN FRANCISCO-OAKLAND BAY BRIDGE
RECONSTRUCTION
STEEL WORK-EAST BAY**

504 FOOT SPANS AND TOWER E9 - STRINGERS			
UNLESS NOTED	33-25	SHEET NO 24	DRAWING 403024R
SCALE 3/8" = 1'-0"	34-03		
BRIDGE	34-04		

11163 As built with revisions	08	EEF
11161 Existing stringer designation corrected	11	AL
MARK DATE	DESCRIPTION	BY
	REVISION	CHK

APPROVAL RECOMMENDED BY: *[Signature]*
DATE: 10/10/91

DESIGN: *[Signature]*
CHECKED: *[Signature]*
DATE: 10/10/91



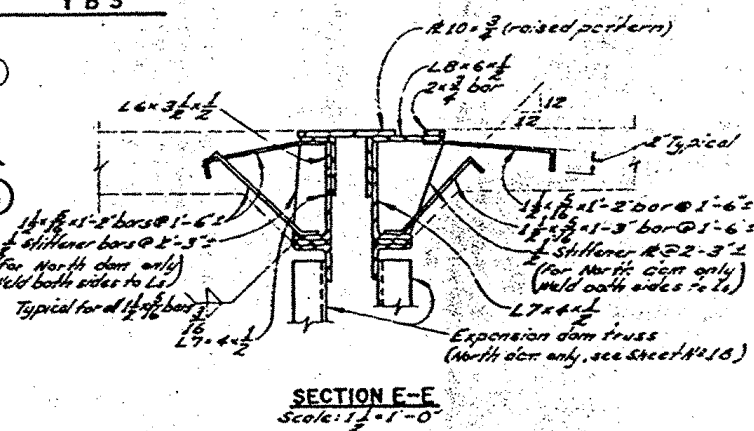
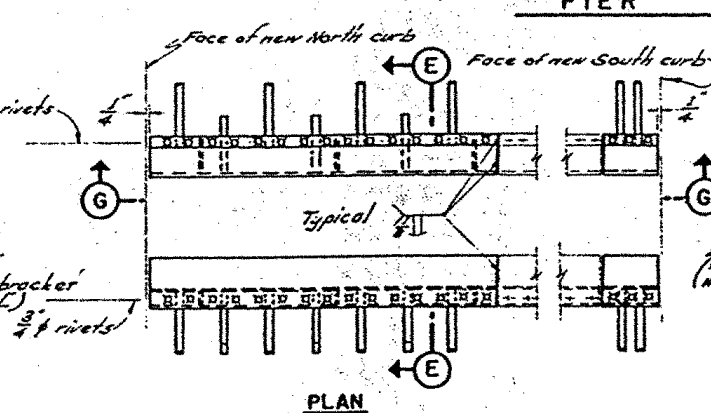
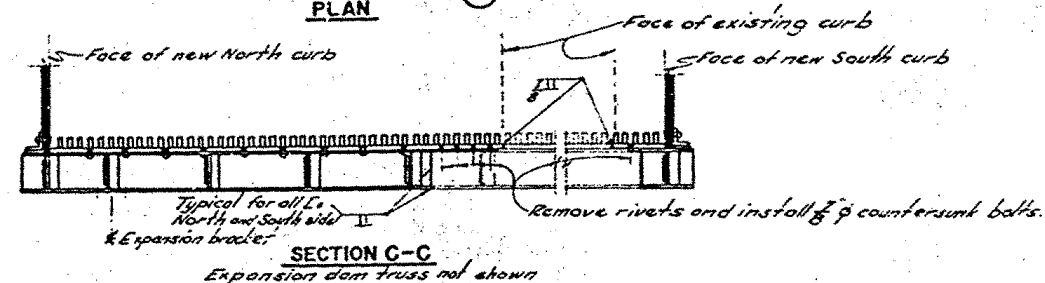
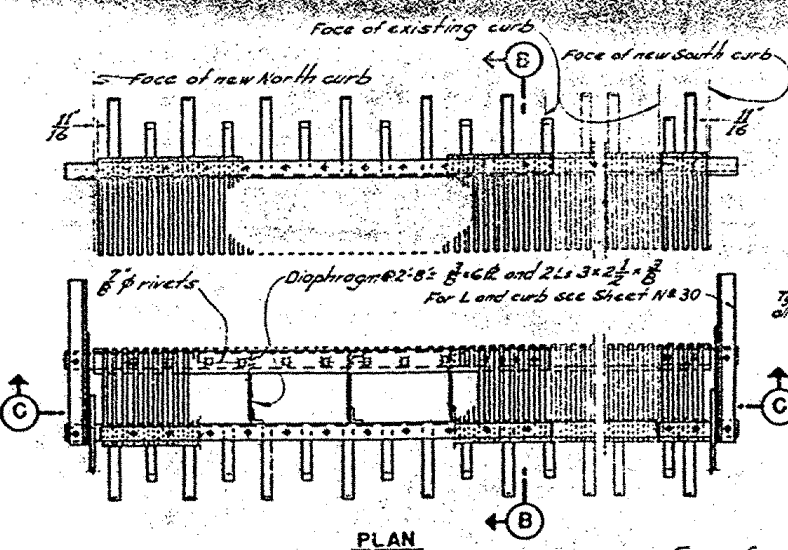
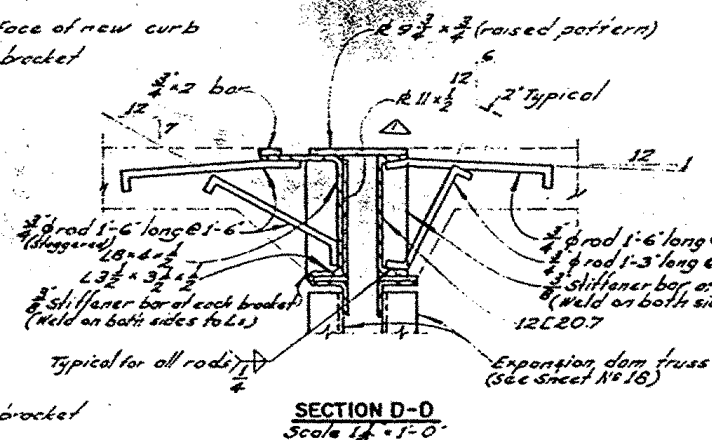
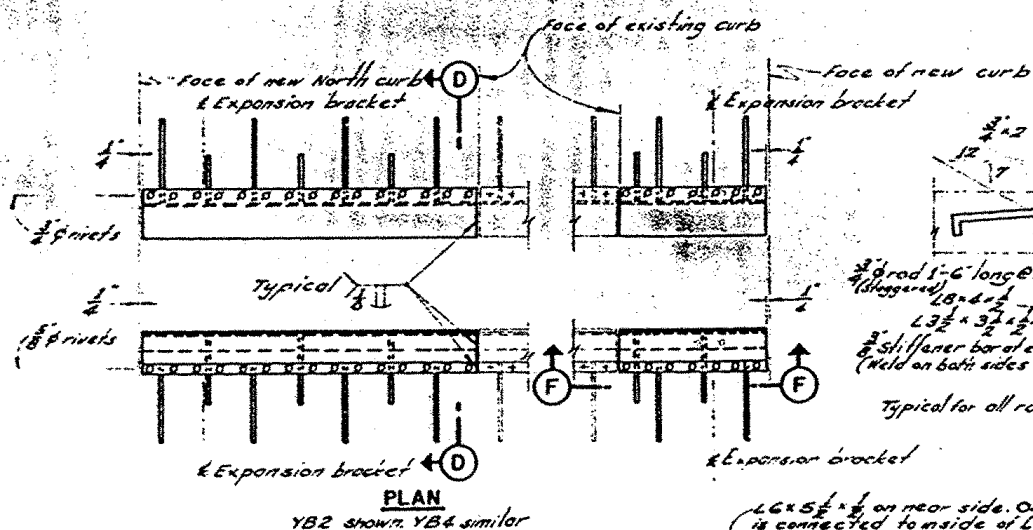
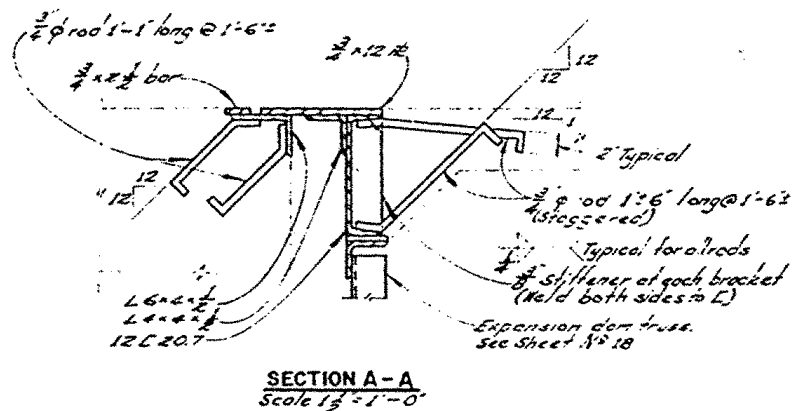
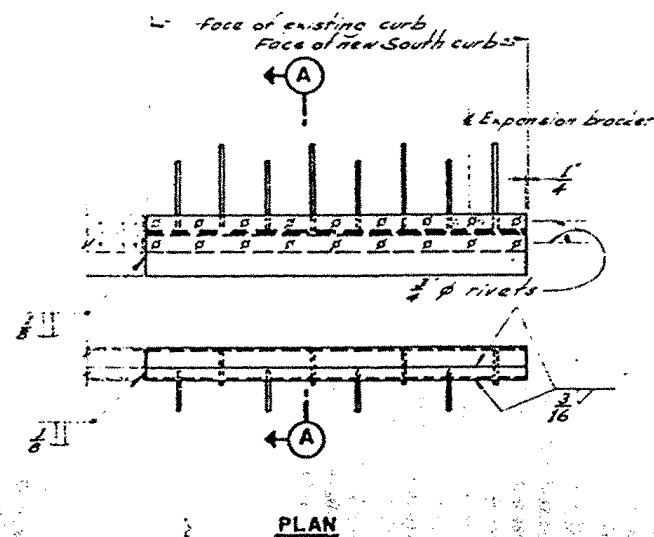
SPAN E9-E10	PANEL POINT	U0	U1	U2	U3	U4	U5	U6	U7	U8
	NORTH	0-0	0-0	0-0	0-0	0-0	0-1 $\frac{1}{2}$	1-10	3-5 $\frac{1}{2}$	5-10 $\frac{1}{2}$
	SOUTH	0-0	4-0 $\frac{1}{2}$	4-10 $\frac{1}{2}$	5-7 $\frac{1}{2}$	5-11 $\frac{1}{2}$	5-7 $\frac{1}{2}$	4-7 $\frac{1}{2}$	3-11 $\frac{1}{2}$	2-9 $\frac{1}{2}$
SPAN E10-E11	PANEL POINT	U0	U1	U2	U3	U4	U5	U6	U7	U8
	NORTH	5-8 $\frac{1}{2}$	3-4 $\frac{1}{2}$	1-9 $\frac{1}{2}$	0-9 $\frac{1}{2}$	0-6 $\frac{1}{2}$	0-10 $\frac{1}{2}$	1-7 $\frac{1}{2}$	2-5 $\frac{1}{2}$	0-0
	SOUTH	0-11 $\frac{1}{2}$	3-0 $\frac{1}{2}$	4-9 $\frac{1}{2}$	5-7 $\frac{1}{2}$	5-11 $\frac{1}{2}$	5-7 $\frac{1}{2}$	4-10	4-0 $\frac{1}{2}$	0-0

- TABLE C - DECK WIDENING**
- DISTANCE BETWEEN EXISTING AND NEW CURB LINES**
- NOTES**
1. Interior deck sections West of Sta. 244+56.6 and East of Sta. 256+46.6 are transitional between those shown on this sheet and on Sheet No. 16
 2. For understringers see Sheet No. 54. Spacing of understringers in end panels to be equal to those in 56' panels.
 3. For new stringers see Sheet No. 22
 4. For joint details see Sheet No. 54
 5. For curb alterations see Sheet's No. 22 and 31.
 6. For expansion dam extensions see Sheet No. 22. For new expansion brackets see Sheet No. 23
 7. For erection procedure of floor beam cover plates see Sheet No. 26. For floor beam 210 at E see view BB. Sheet No. 16. For floor beams 1 & 2 at ELC see view EE on Sheet No. 31 and for floor beam 18 at EIL see view FF on Sheet No. 33
 8. For work on stringer seats see Sheet No. 55
 9. For transition rail adjustment see Sheet No. 40



STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS			
SAN FRANCISCO-OAKLAND BAY BRIDGE RECONSTRUCTION STEEL WORK-EAST BAY			
SPANS E9 - E11 DECK FRAMING			
33-25 34-03 34-04			
SCALE AS SHOWN	BRIDGE	SHEET NO 25	DRAWING-C-4030-25

1	11.68	As built with revisions	L.S.	E.E.
MARK	DATE	DESCRIPTION	BY	CHK
		REVISION		



NOTES:

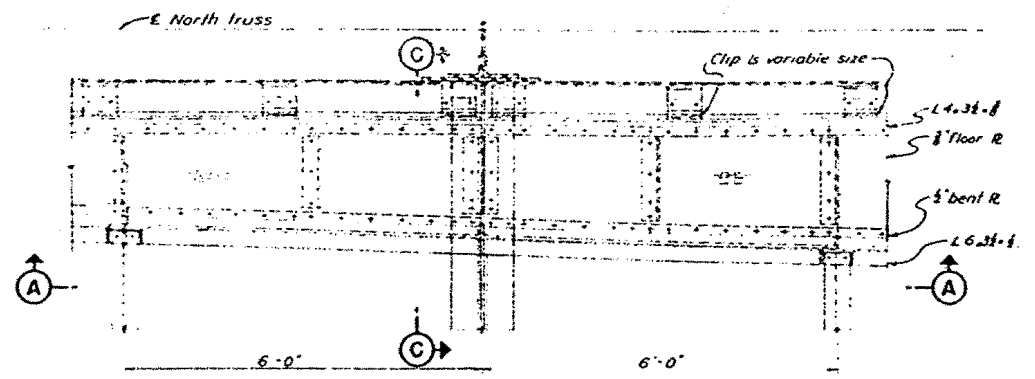
- All holes 1/2" for 3/8" U.S. bearing bolts unless noted.
- For expansion brackets see Sheet No. 27.
- The bottom surface of grating bars shall be in one plane, free of warps or distortions after fabrication and each bar shall have full bearing on supports.
- For as-built record see shop drawings.

SCALE 1/2" = 1'-0"

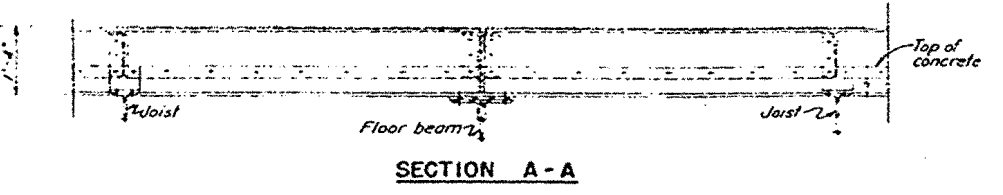
SUPPLEMENTAL CONTRACT DRAWING			
STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS			
SAN FRANCISCO-OAKLAND BAY BRIDGE RECONSTRUCTION STEEL WORK - EAST BAY EXPANSION DAM EXTENSIONS			
UNLESS NOTED	32-23	SHEET No 26	DRAWING C-4030-26R
SCALE 1/2" = 1'-0"	BRIDGE 34-04		

APPROVAL RECOMMENDED BY
[Signature]
DATE

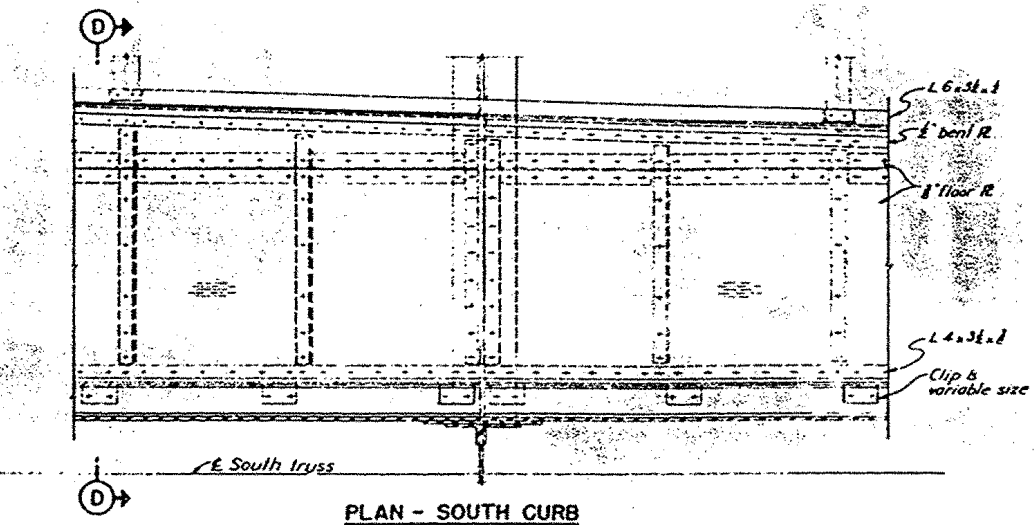
DESIGN
CHECKED
QUANTITY
REVISIONS
DATE



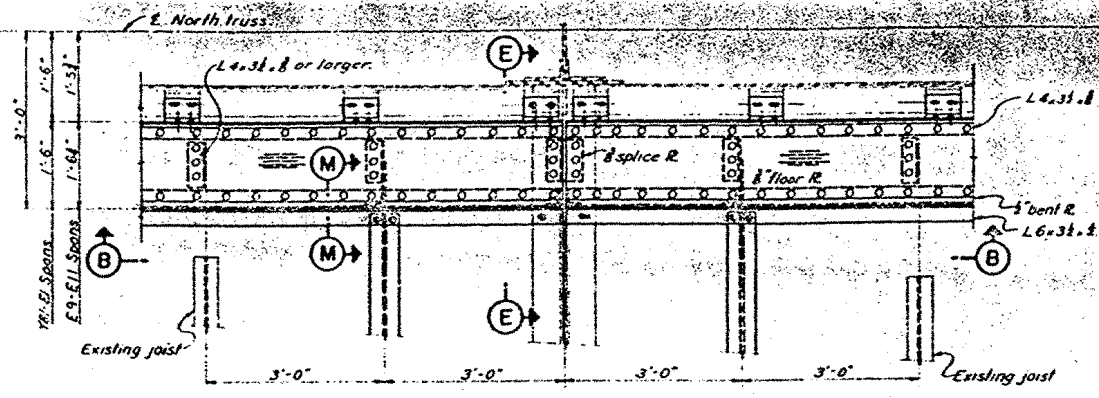
PLAN - NORTH CURB



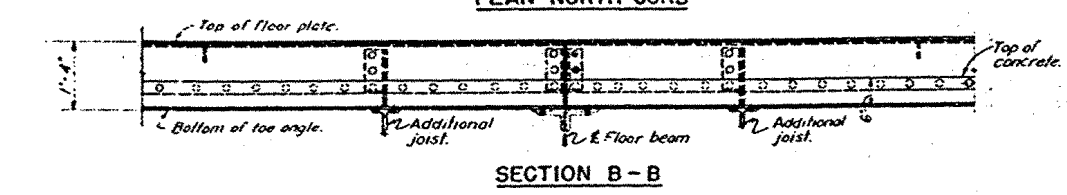
SECTION A-A



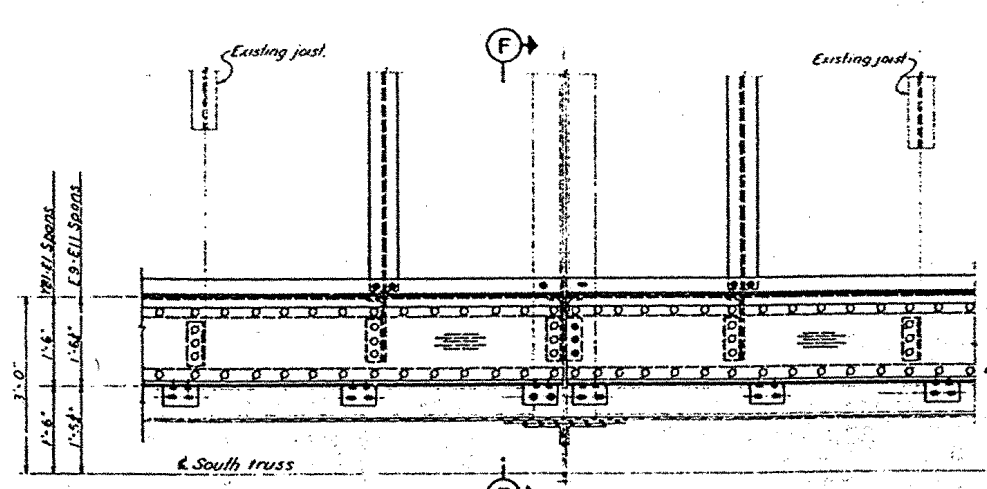
PLAN - SOUTH CURB



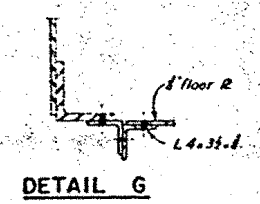
PLAN - NORTH CURB



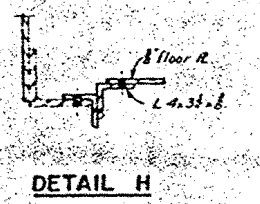
SECTION B-B



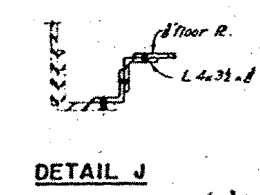
PLAN - SOUTH CURB



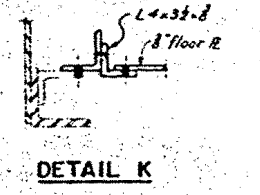
DETAIL G



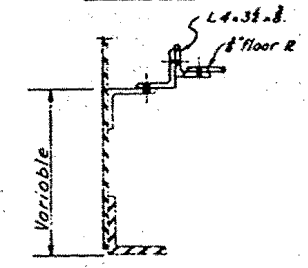
DETAIL H



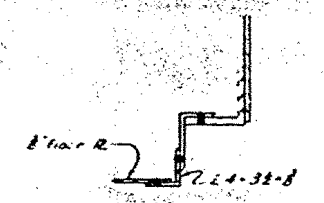
DETAIL J



DETAIL K

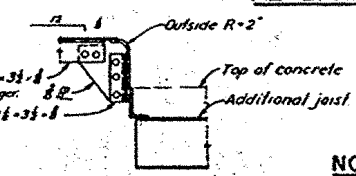


DETAIL L



DETAIL N

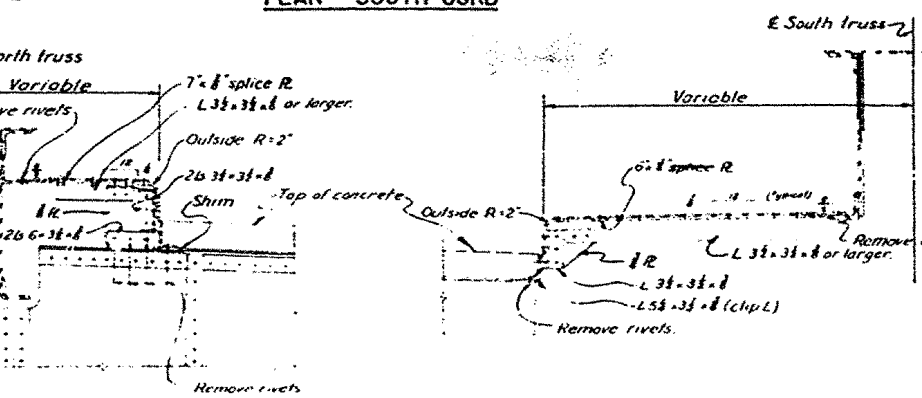
ALTERNATIVE CHORD CONNECTIONS



Scale: 1 1/2" = 1'-0"

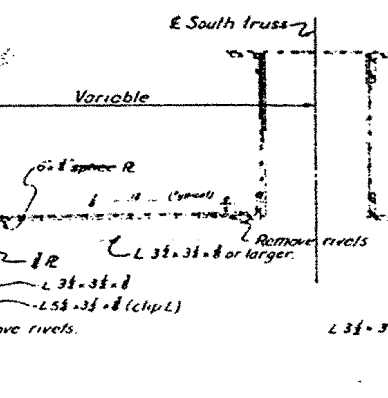
NOTES

1. All shop rivets 3/4" countersunk heads not over 8" high
 2. All field connections of floor plate and of bent curb plate 3/4" flat head bolts except as noted
 3. For curb to chord connections use either 8" bent plates or clip angles and 8" machine bolts except for existing 1 1/2" holes use 1" machine bolts
 4. For curb to floor beam and curb to joist connections use 8" machine bolts
 5. Deck slab concrete is omitted on all plan views
 6. Details (G), (H), (J), (K), (L), and (N) show various connections between curb and chord
- △ 7 for as-built record see shop drawings

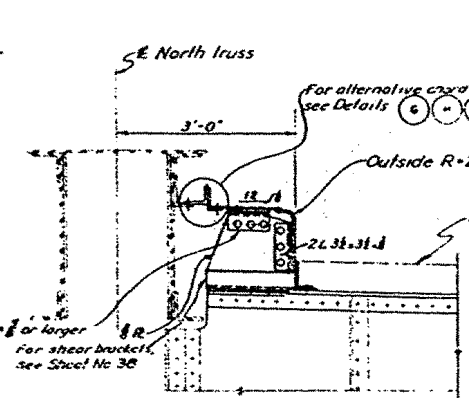


SECTION C-C
(At floor beam)

EXISTING CURB

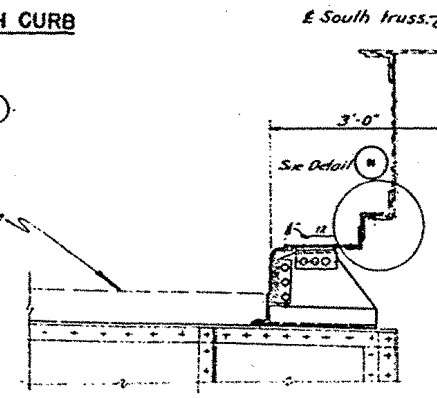


SECTION D-D
(At joist)



SECTION E-E
(At floor beam)

NEW CURB



SECTION F-F
(At floor beam)

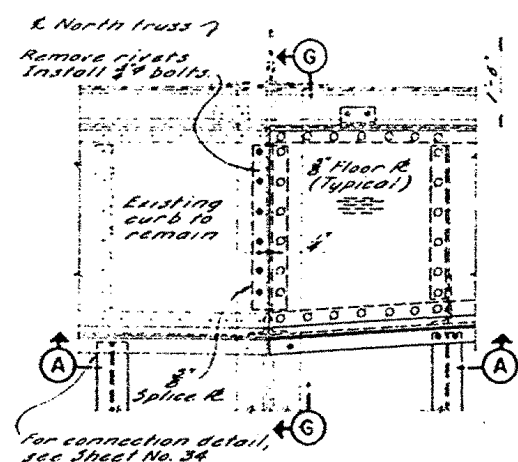
MARK	DATE	DESCRIPTION	BY	CHK

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS

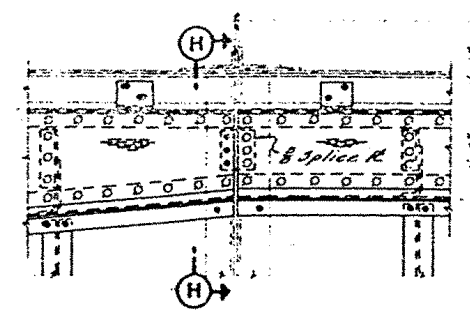
**SAN FRANCISCO-OAKLAND BAY BRIDGE
RECONSTRUCTION
STEEL WORK-EAST BAY**

YB1 - E1 AND E9-E11 TYPICAL CURB DETAILS

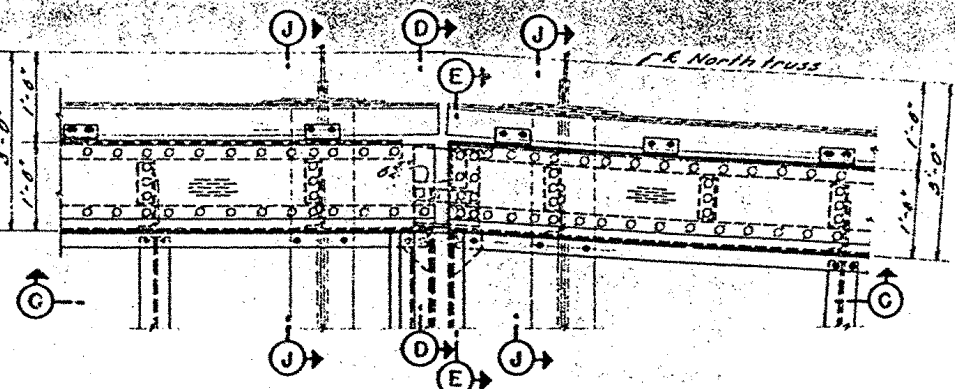
UNLESS NOTED
SCALE 3/4" = 1'-0" BRIDGE 34-03 SHEET No. 28 DRAWING: 4030-28H



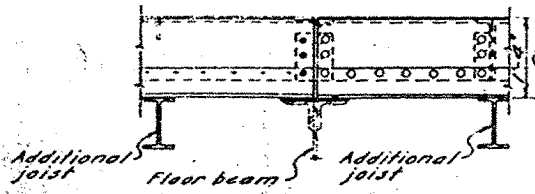
PLAN-NORTH CURB AT U1



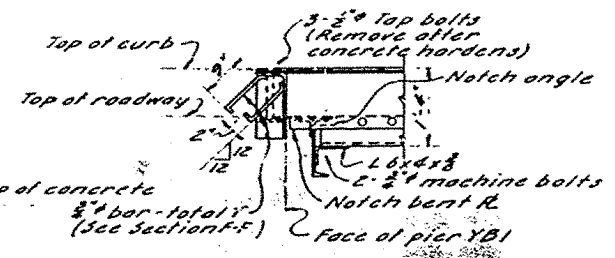
PLAN-NORTH CURB AT U2



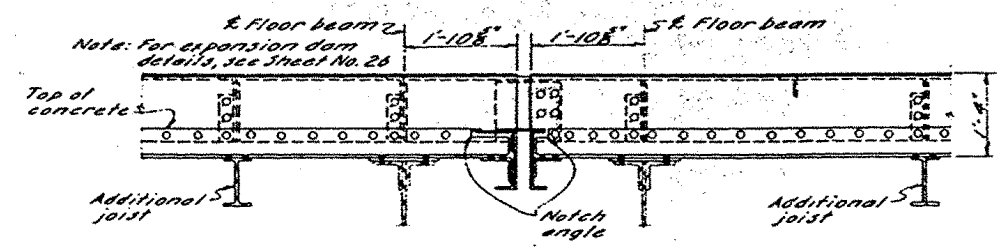
PLAN-NORTH CURB AT YB2 (U8 AND U9)



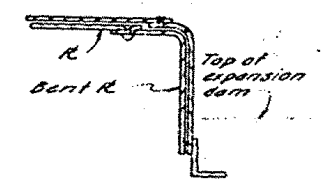
SECTION A-A



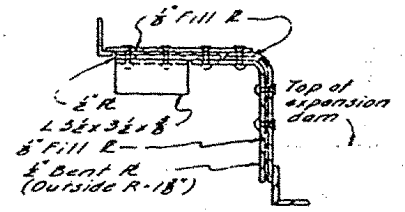
SECTION B-B



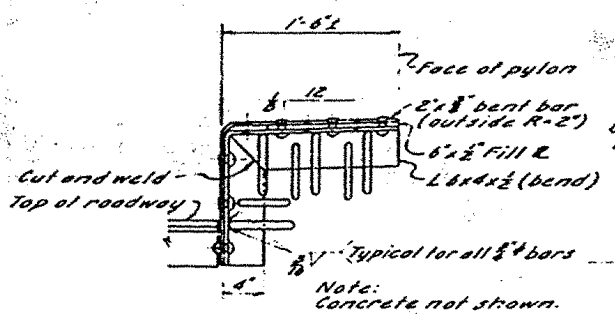
SECTION C-C



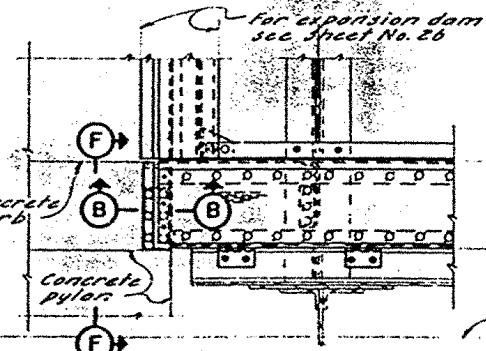
SECTION D-D



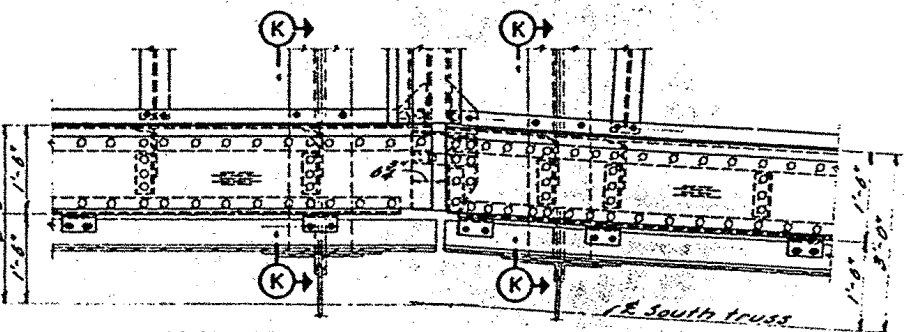
SECTION E-E



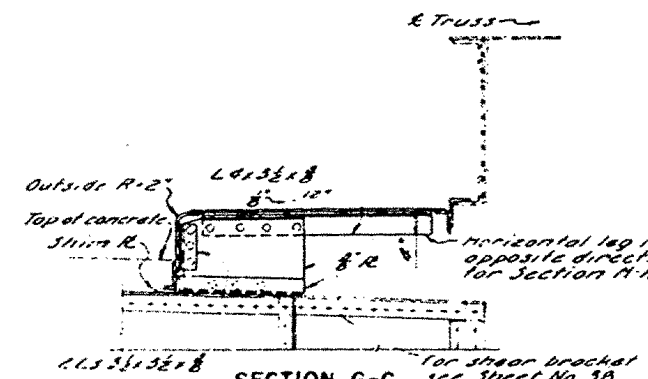
SECTION F-F



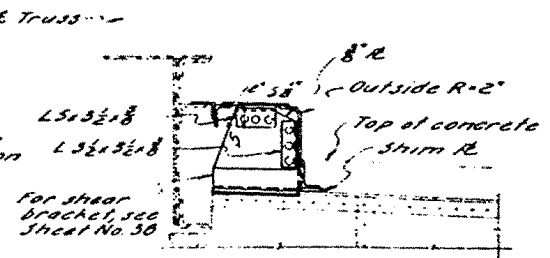
PLAN-SOUTH CURB AT YB1 (U0)



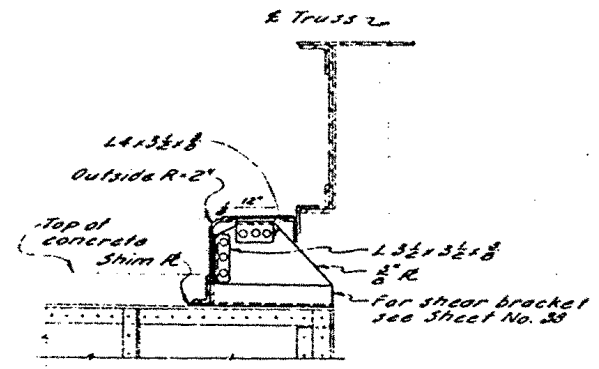
PLAN-SOUTH CURB AT YB2 (U8 AND U9)



SECTION G-G



SECTION J-J



SECTION K-K

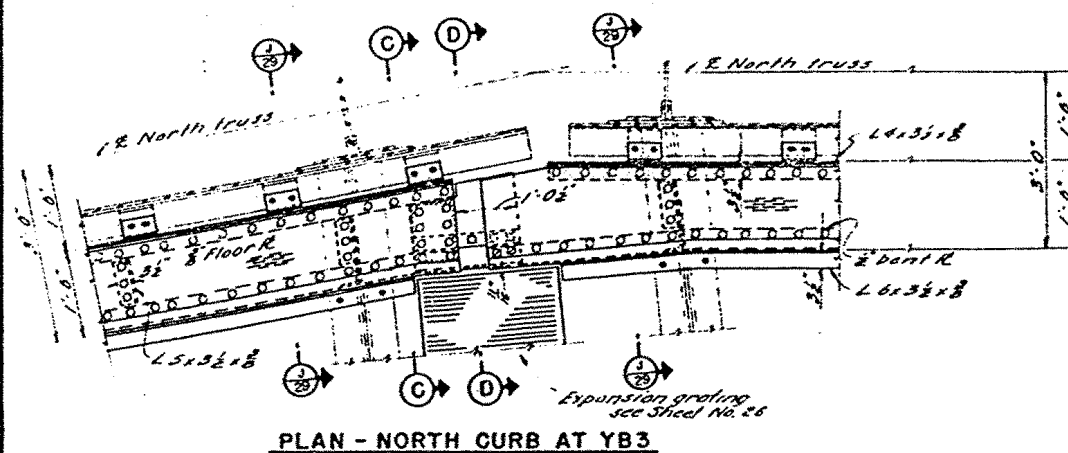
NOTES

- Notes 1 to 6 on Sheet No. 20 apply.
- For as-built record see shop drawings.

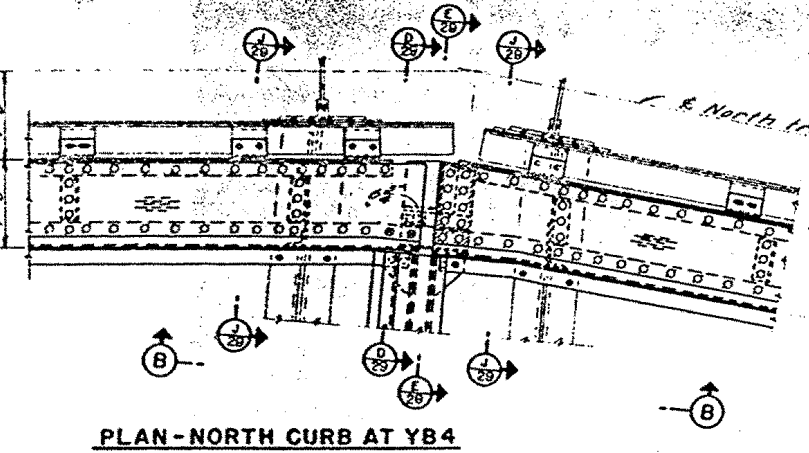


STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS			
SAN FRANCISCO-OAKLAND BAY BRIDGE RECONSTRUCTION STEEL WORK-EAST BAY			
YB1-YB2 CURB DETAILS			
UNLESS NOTED	33-20	BY	CH'K
SCALE 3/4" = 1'-0"	BRIDGE	34-04	SHEET No 29
		DRAWING 4030 25R	

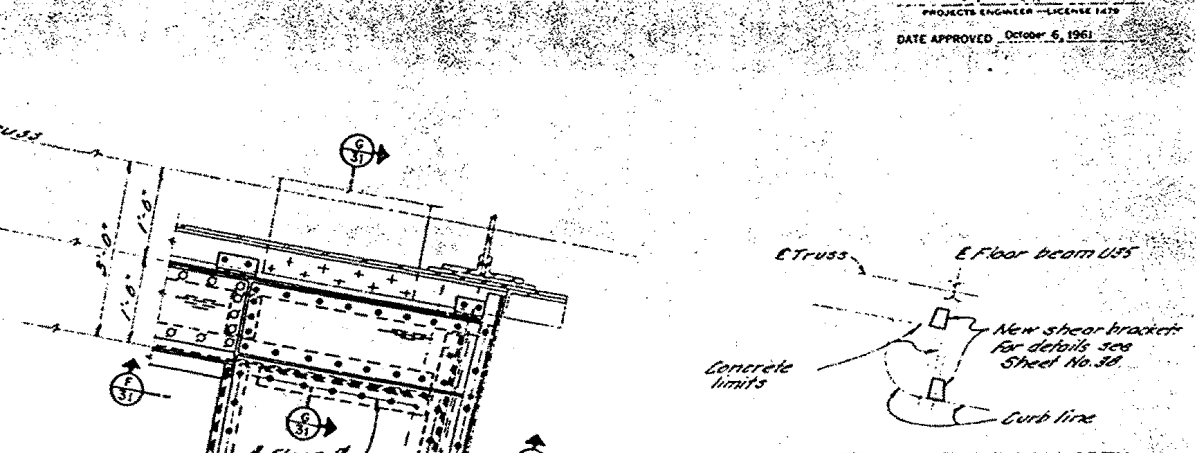
MARK	DATE	DESCRIPTION	BY	CH'K
		REVISION		



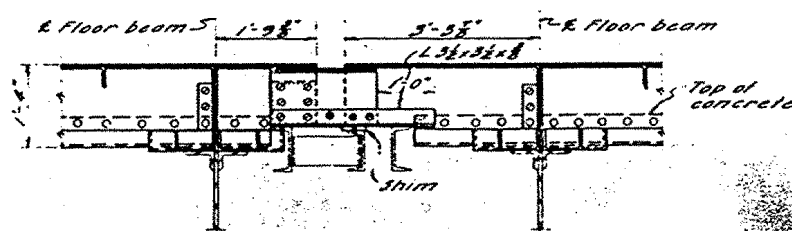
PLAN - NORTH CURB AT YB3



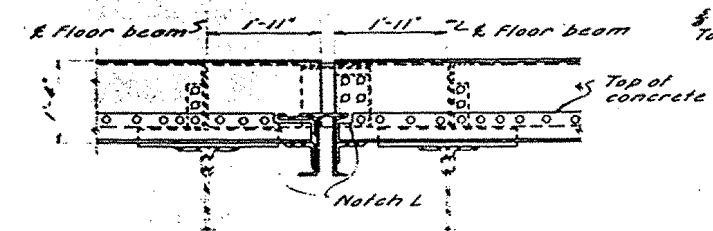
PLAN-NORTH CURB AT Y84



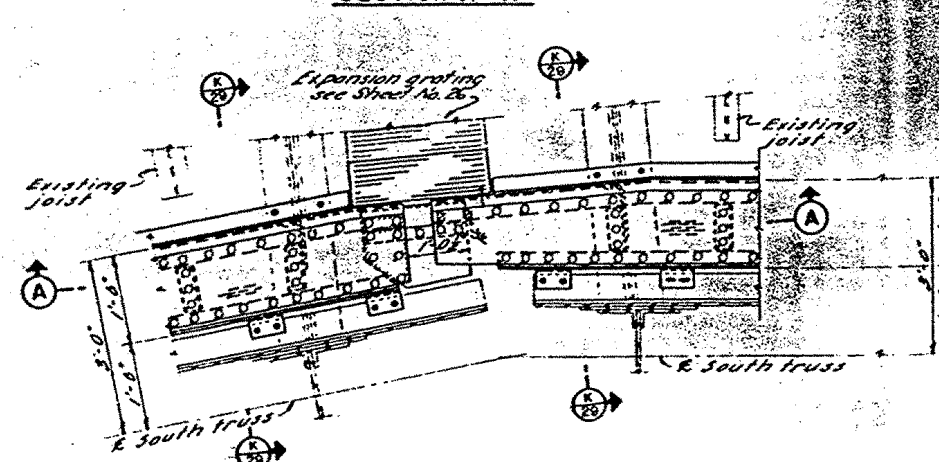
SHEAR BRACKET LAYOUT-EI(U35) NORTH



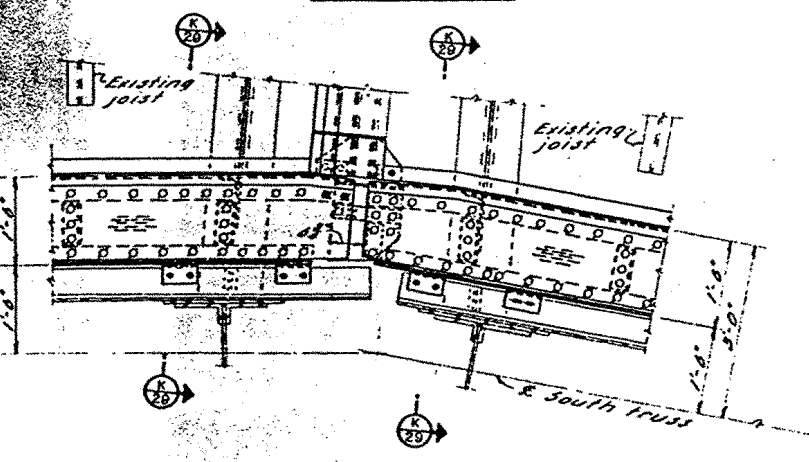
SECTION A - A



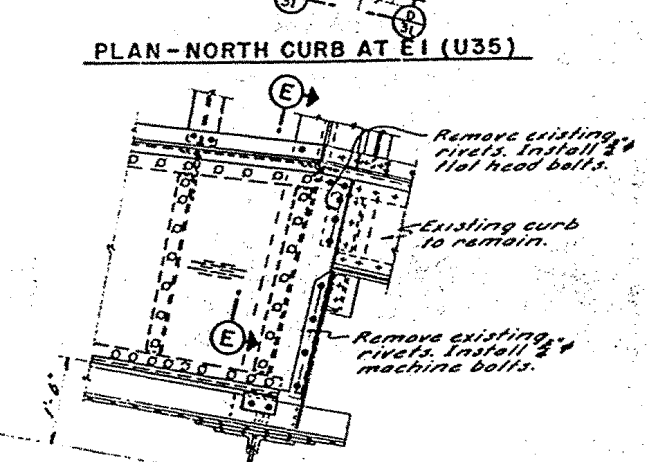
SECTION B-B



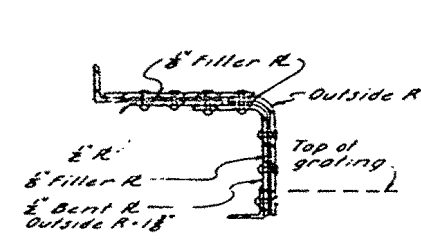
PLAN - SOUTH CURB AT Y83



PLAN - SOUTH CURB AT YB4

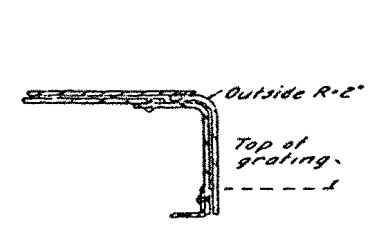


PLAN - SOUTH CURB AT E1 (U35)



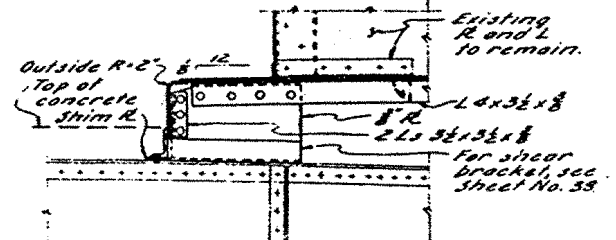
SECTION C-C

Scale 12"=1'-0"



SECTION D-D


Scale: $1\frac{1}{2}" = 1'-0"$



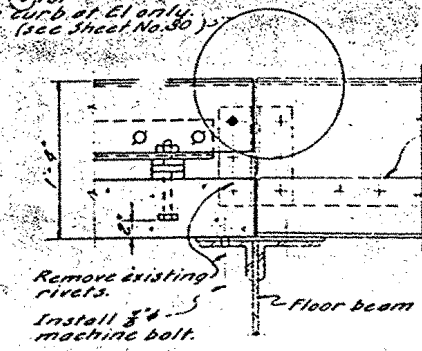
SECTION E - E

- NOTES**
1. Notes 1 to 6 on Sheet No. 28 apply.
 2. For material not called out, see Sheet No. 28.
 3. For as-built record see shop drawings

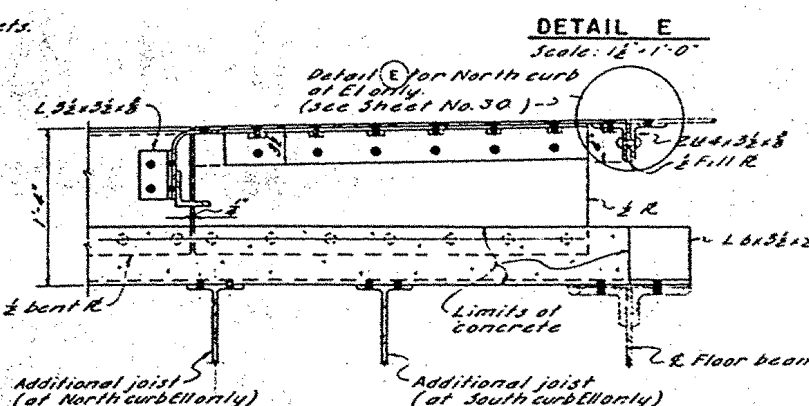


		11.63 DATE	Admit with revisions DESCRIPTION REVISION	1.3 BY	EEF CHK	YB3 - E1 CURB DETAILS			
						UNLESS NOTED SCALE 3/4" = 1'-0"	32-25 34-03 BRIDGE 34-04	SHEET No 30	DRAWING C-4030-309

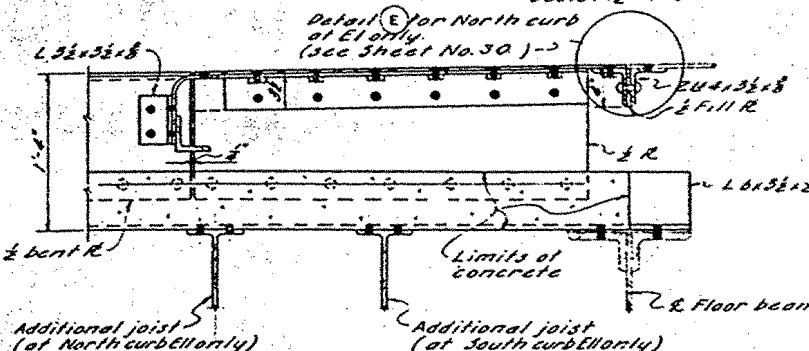
DETAIL C
Scale: 12" = 1'-0"



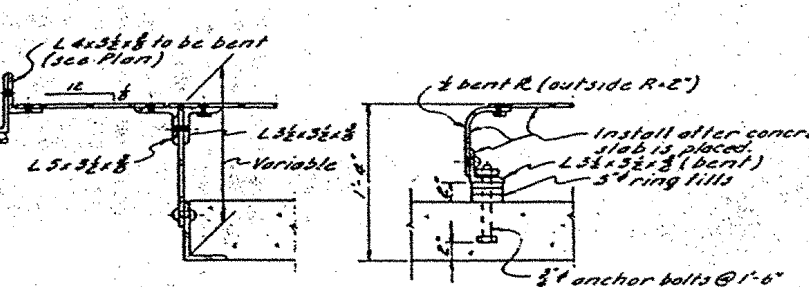
SECTION D-D
Scale: 12" = 1'-0"



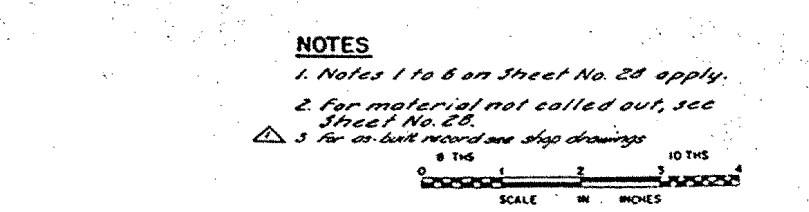
DETAIL E
Scale: 12" = 1'-0"



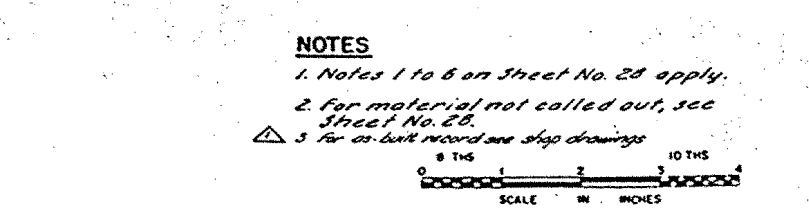
SECTION F-F
Scale: 12" = 1'-0"



SECTION G-G
Scale: 12" = 1'-0"



SECTION H-H
Scale: 12" = 1'-0"



NOTES

- Notes 1 to 6 on Sheet No. 28 apply.
- For material not called out, see Sheet No. 28.
- For as-built record and shop drawings.



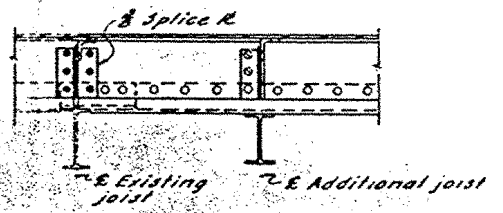
**SAN FRANCISCO-OAKLAND BAY BRIDGE
RECONSTRUCTION
STEEL WORK - EAST BAY**

E9 - E11 CURB DETAILS

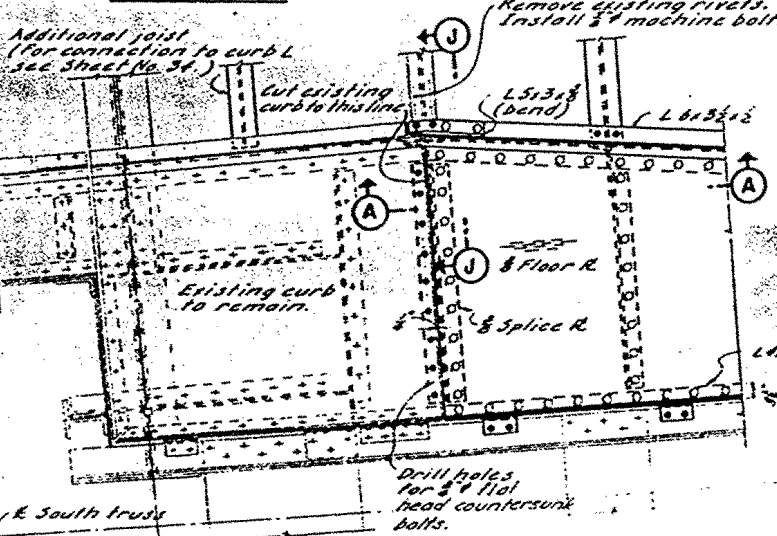
MARK	DATE	DESCRIPTION	BY	CHK
1103		As built with revisions	445	EEF

UNLESS NOTED SCALE 3/4" = 1'-0" BRIDGE 34-04 SHEET NO. 31 C&G&N-4030-319

SHEAR BRACKET LAYOUT-E11 NORTH
Similar at E11 South
No Scale

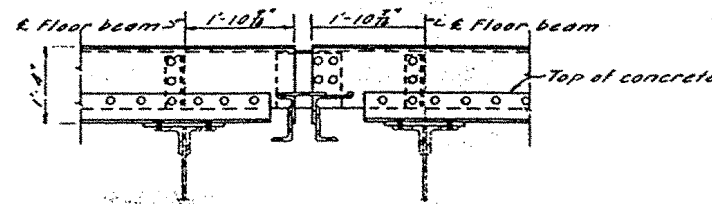


SECTION A-A

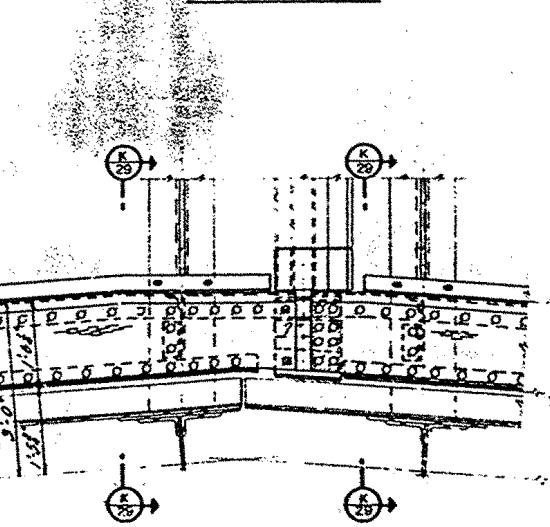


PLAN - SOUTH CURB AT E9

PLAN - NORTH CURB AT E10

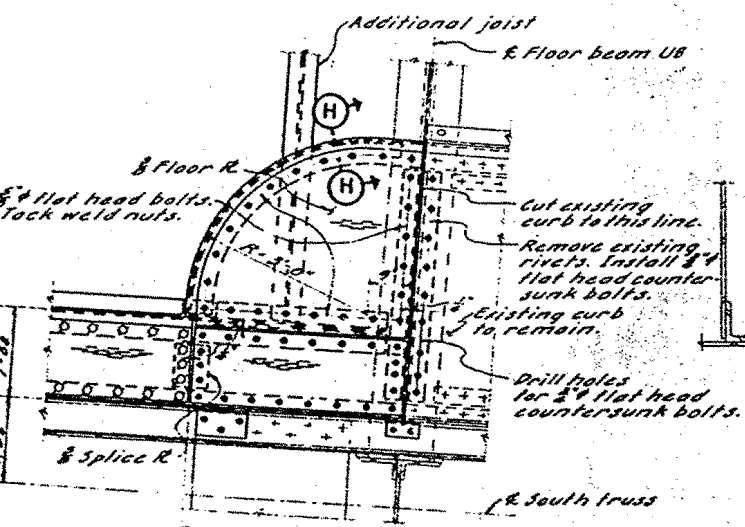


SECTION B-B



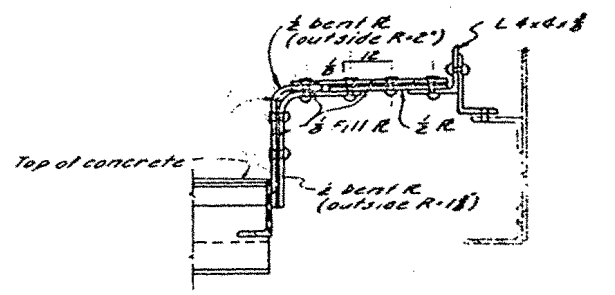
PLAN - SOUTH CURB AT E10

PLAN - NORTH CURB AT E11

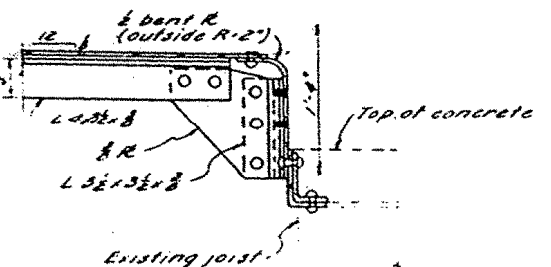


PLAN - SOUTH CURB AT E11

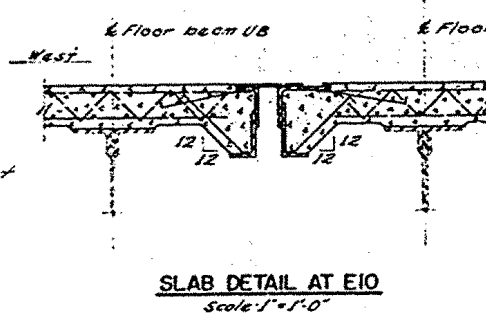
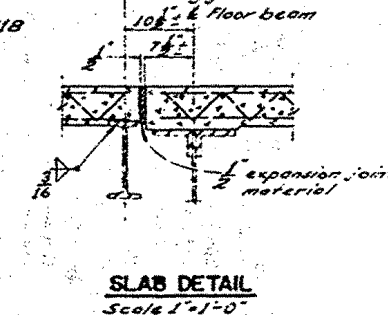
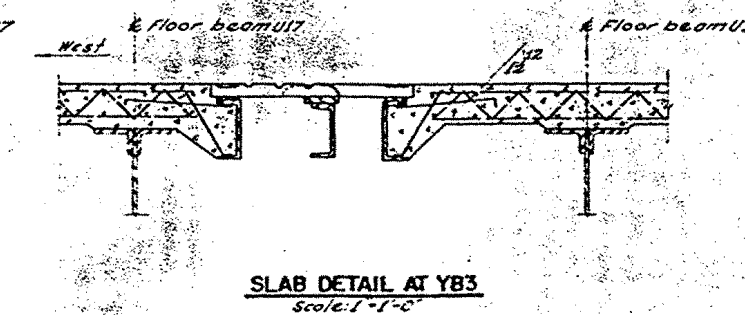
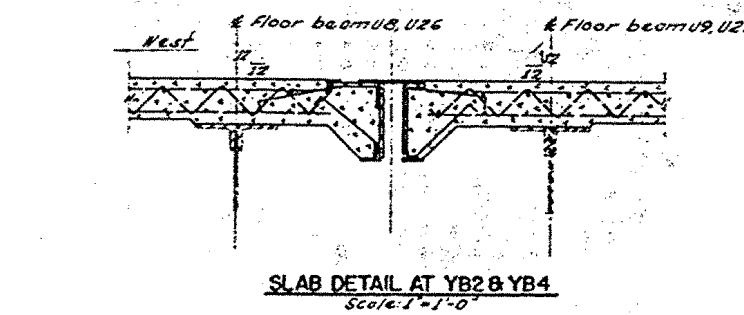
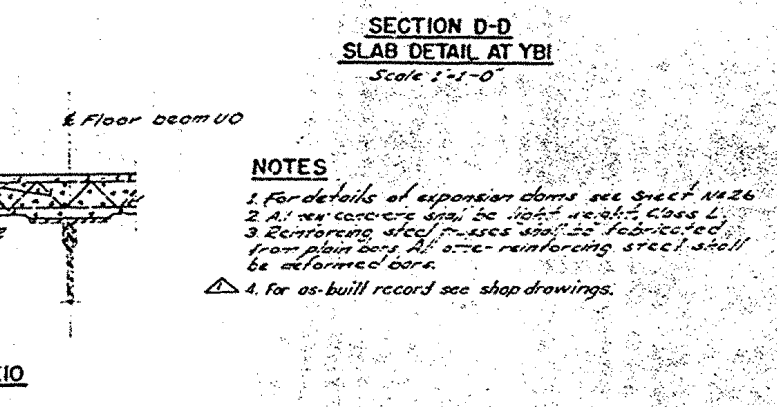
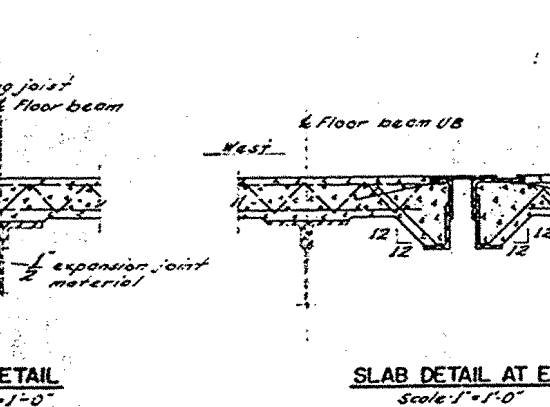
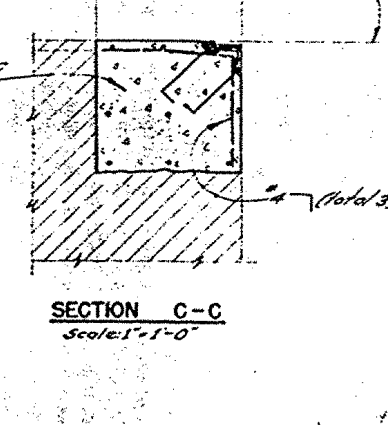
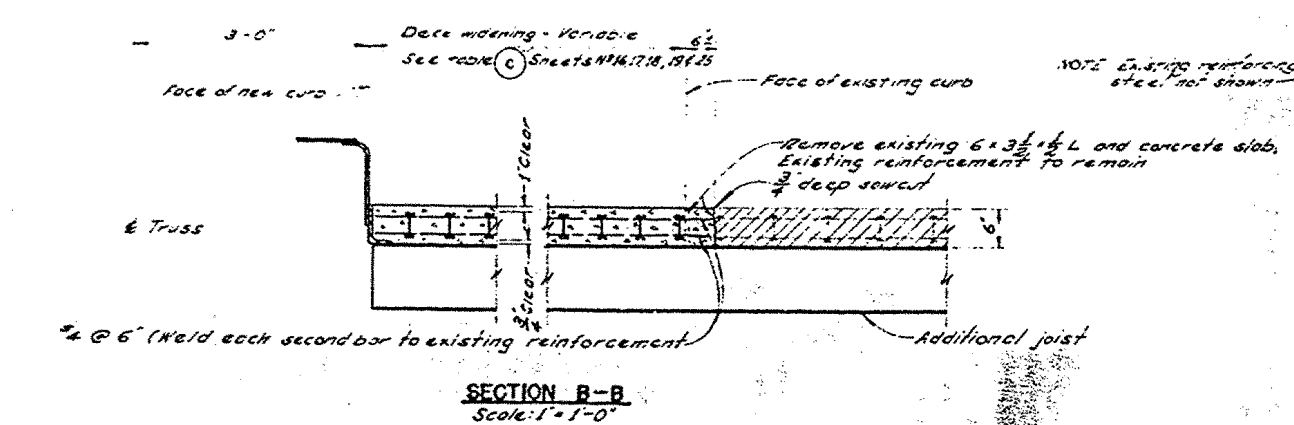
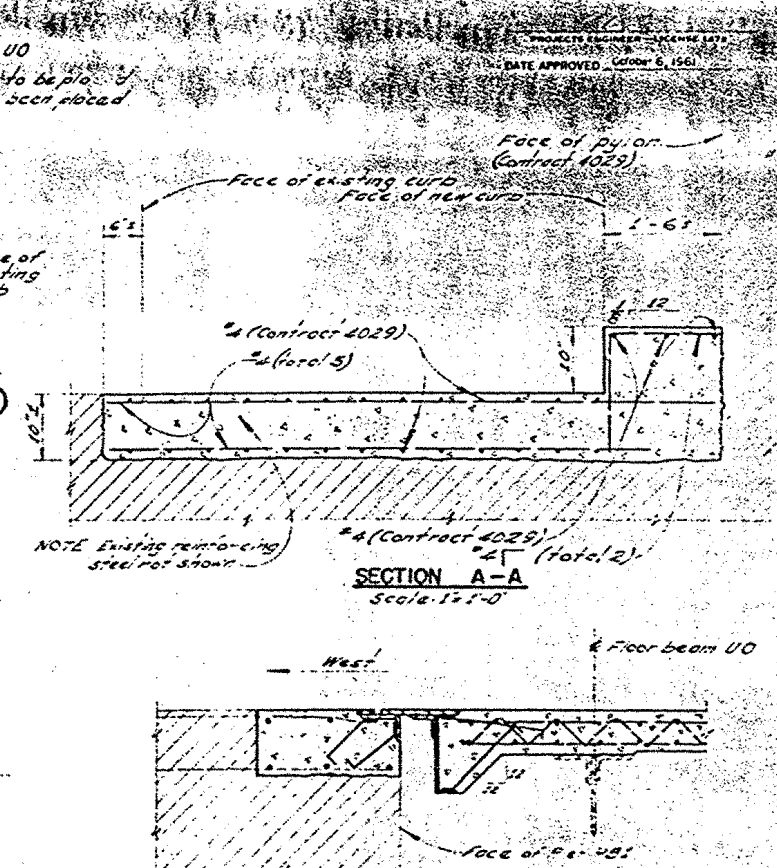
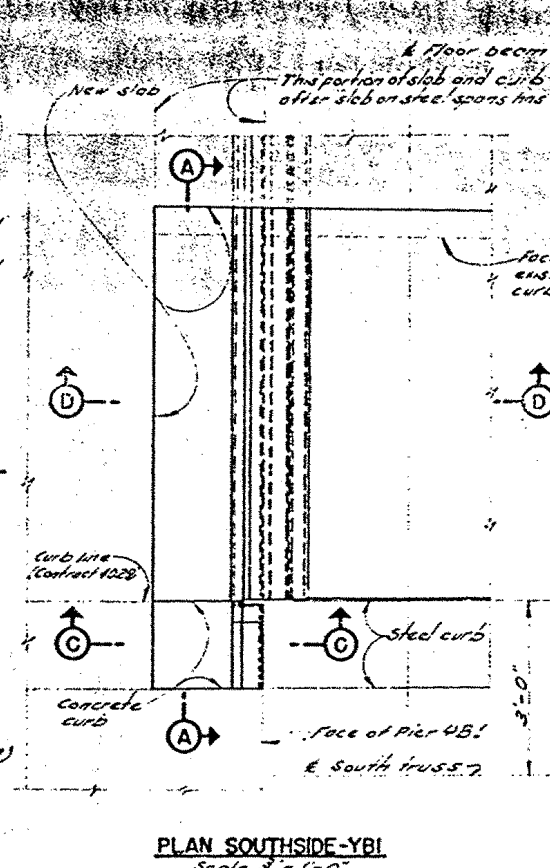
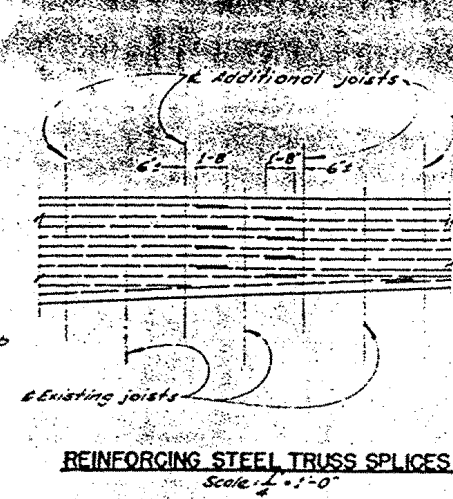
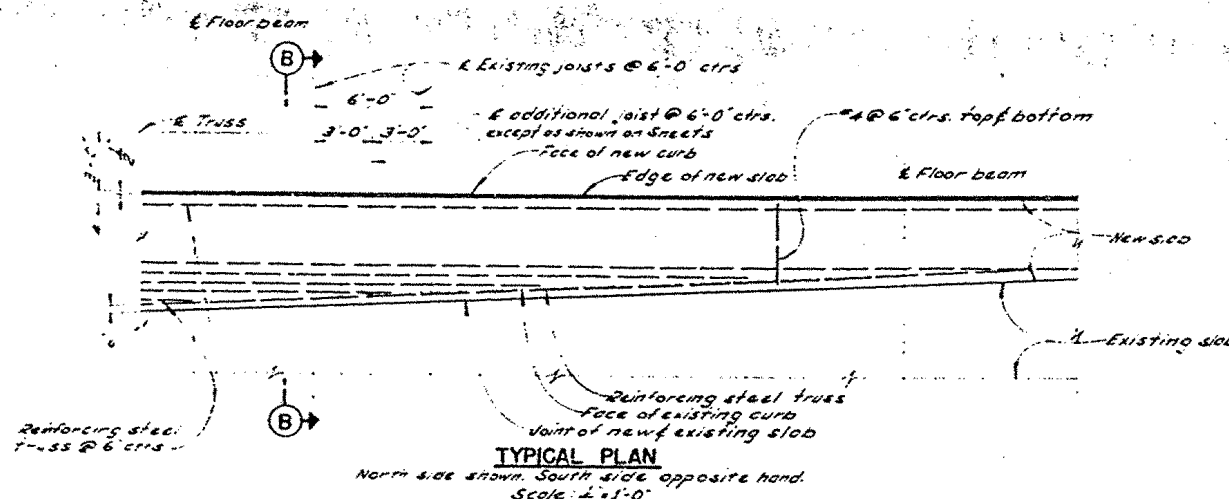
SECTION K-K
Scale: 12" = 1'-0"



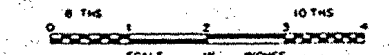
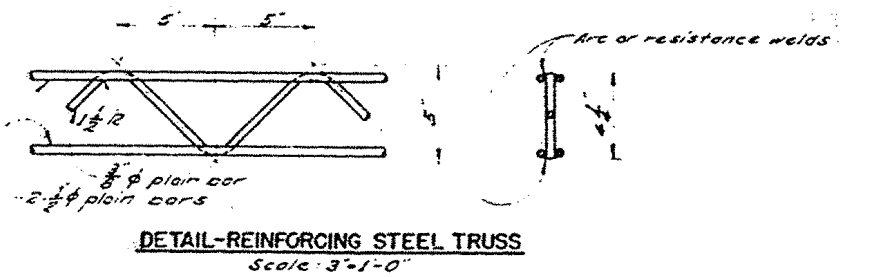
SECTION J-J
Scale: 12" = 1'-0"



APPROVAL RECOMMENDED BY: *[Signature]*
 DATE: 11/11/11
 PROJECT: SAN FRANCISCO OAKLAND BAY BRIDGE RECONSTRUCTION
 SHEET: YBI-EI AND E9-EII SLAB DETAILS



- NOTES**
1. For details of expansion joints see sheet N426
 2. All new concrete shall be light weight Class L
 3. Reinforcing steel shall be fabricated from plain bars. All other reinforcing steel shall be deformed bars.
 4. For as-built record see shop drawings.



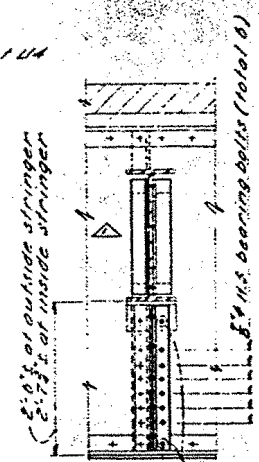
U1.63		As built with revisions		CG	EEF
MARK	DATE	DESCRIPTION	BY	CHK	
		REVISION			

STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS

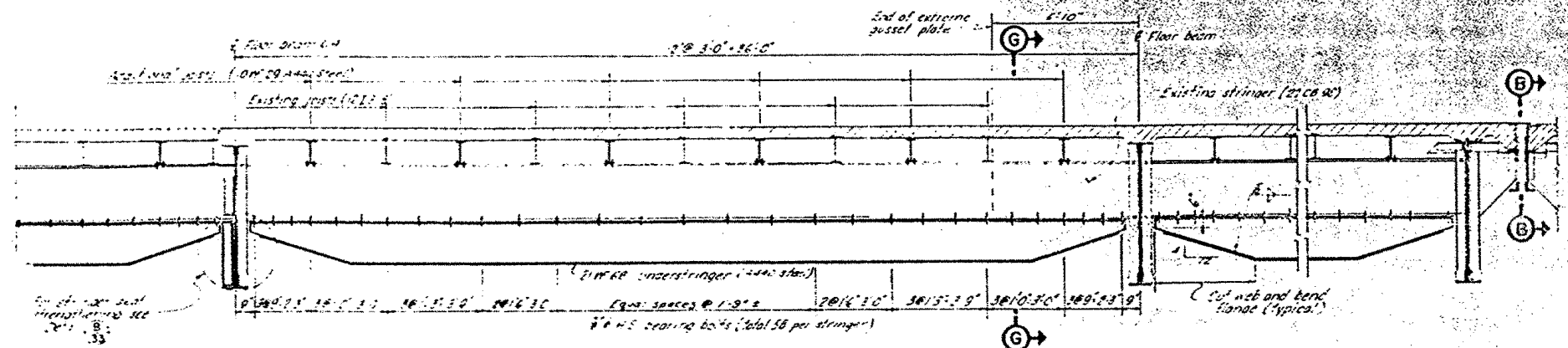
**SAN FRANCISCO-OAKLAND BAY BRIDGE
 RECONSTRUCTION
 STEEL WORK-EAST BAY**

YBI-EI AND E9-EII SLAB DETAILS

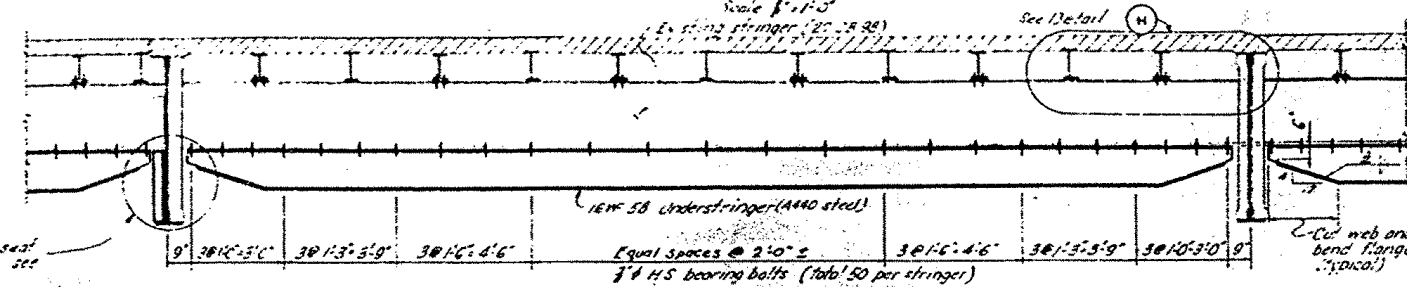
SCALE AS SHOWN BRIDGE 34-04 SHEET NO 32 DRAWING 4030-32R



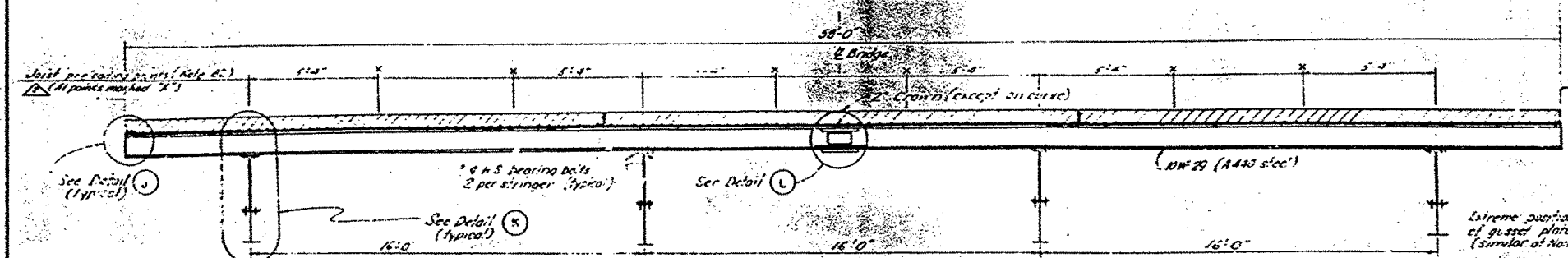
SCALE AS SHOWN	BRIDGE	33-25 34-03 34-04	SHEET NO	33	DRAWING NO	4030-33R
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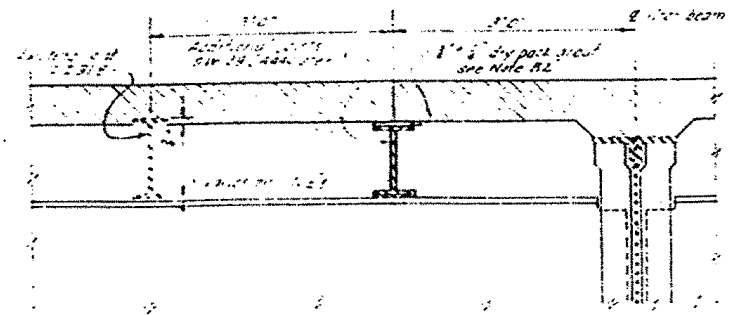
INSIDE STRINGER
SECTION A-A See Sheet No 33



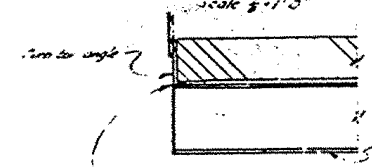
OUTSIDE STRINGER
SECTION C-C Sec. Sheet No 33
Scale 1/2" = 1'-0"



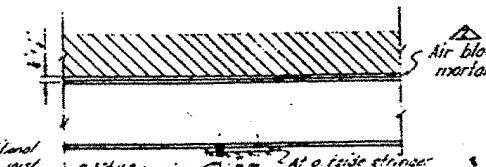
ADDITIONAL JOIST
SECTION G-G



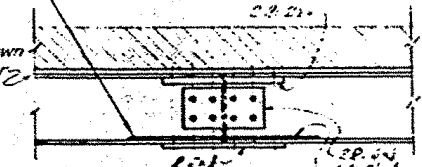
DETAIL H



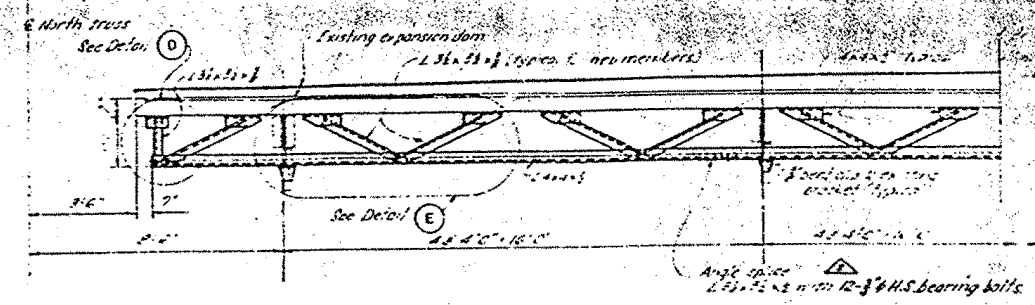
DETAIL J



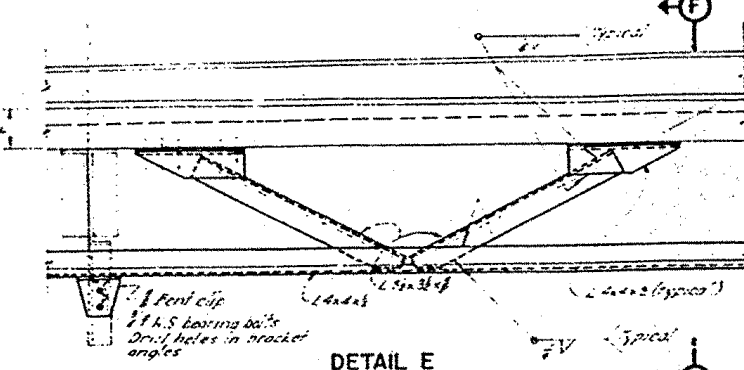
DETAIL K
Scale 1"=1'-0"



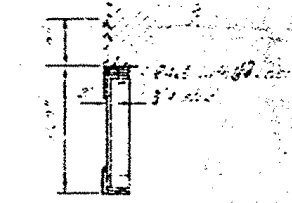
DETAIL L
3/24/74



SECTION B-B
Scale 1/4" = 1'-0"



DETAIL E
Scale 1/2" = 1'-0"

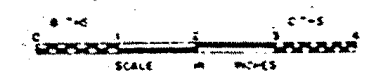


SECTION F-F

EXPANSION DAM TRUSSES (For 250' and 500' spans)



ERECTION PROCEDURE

- 4 Understringers:
1 Drill first eight large holes at each end of existing stringers and drill understringer through these holes before drilling and bolting remaining holes.
2 Rotten understringers shall be placed with the natural lumber species.
3 $\frac{3}{4}$ inch diameter U.S. bearing bolts in $\frac{1}{2}$ inch diameter holes shall be used for all field connections.
- 5 Additional Details:
1 Clear underside of concrete deck as specified.
2 Erect cast in situ of using one center splice, as shown. The Contractor may erect jigs or forms in one piece or with the splice of 1'-0" and in locations approved by the Engineer. In any event one splice will be used for computing bay weights.
3 Place shims on stringers if such thickness that the gap between concrete and cast-in-place steel is about $\frac{1}{2}$ inches with a maximum of one inch and a minimum of $\frac{1}{4}$ inch. Drill holes in top flange of stringer place 4 U.S. bearing bolts (ASTM A36) in 1" holes spaced and shim at each to install deck.
4 The end backing against the deck on the outer end of each end bay's shims on the outer end.
5 After keeping the contact areas of the ends as specified fill the gap with air blown mortar continuously and tightly.
6 When the mortar has attained a strength of not less than three times concrete strength, remove the ends of concrete.
- 6 Expansion Dam Ties:
1 All welded connections shall be $\frac{3}{4}$ inch x 12 inches full base.
2 All connections to existing expansion joints shall be $\frac{3}{4}$ inch full base, threaded steel A36 or A572 or equal.



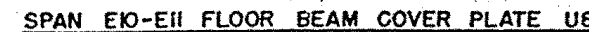
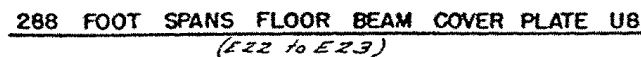
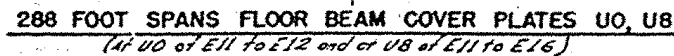
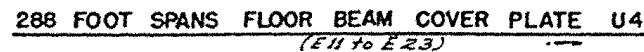
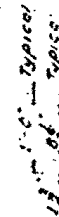
SUPPLEMENTAL CONTRACT DRAWING

SAN FRANCISCO-OAKLAND BAY BRIDGE
RECONSTRUCTION
STEEL WORK-EAST BAY

		11-68	As built with revisions	11-68	EEF
		1-11-62	B2 note changed	EEF	AL
MARK	DATE	DESCRIPTION		BY	CHK
		REVISION			

288 FOOT SPANS - STRINGERS AND JOISTS

SCALE AS SHOWN	BRIDGE	33-25 34-03 34-04	SHEET NO 34	DRAWN, 040203 CR
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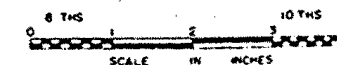



(At intermediate floor beams of E23 to E33 and floor beam of E23)

Fixed end

Stressing end

1. All cover plates shall be T1 steel.
2. One butt welded splice is permitted on 1/6 plates only, at not less than 1'-0" from holes.
3. All holes for type 2 cover plates shall be 15/16".
4. For location of holes for stiffeners see Sheets 1-33 & 34.
5. For panel point designations (e.g. U1, U2) see Plan and Elevation Sheets No. 6-15.

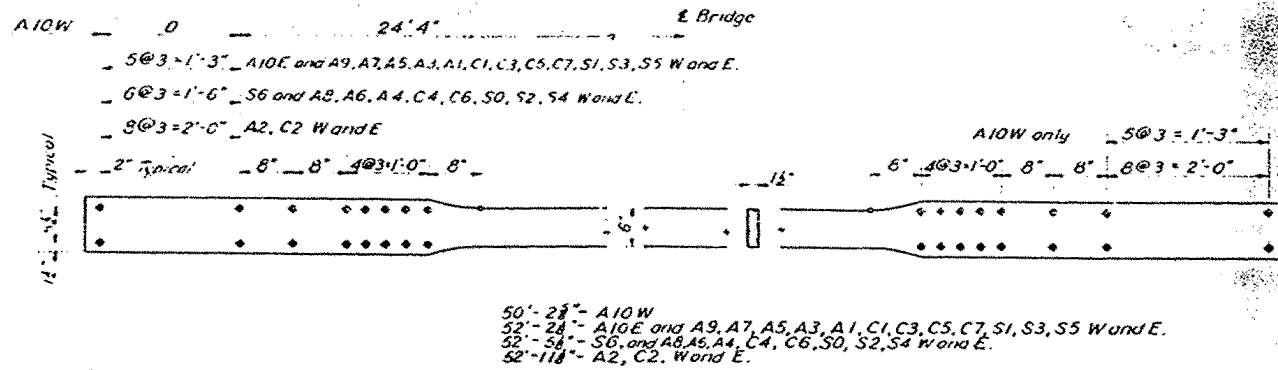


	11.1.63	As built without revisions	CB	EE
MARK	DATE	DESCRIPTION	BY	CHK
REVISION				

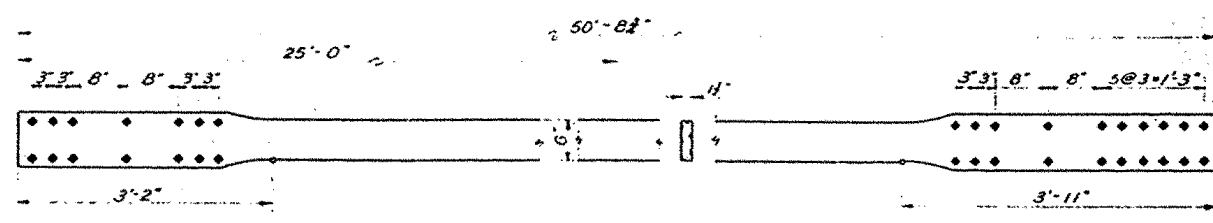
STATE OF CALIFORNIA
DEPARTMENT OF HIGHWAYS
DIVISION OF SAN FRANCISCO BAY TOLL COLLECTING

SAN FRANCISCO-OAKLAND BAY BRIDGE
RECONSTRUCTION
STEEL WORK-EAST BAY
TYPE "A" COVER PLATES

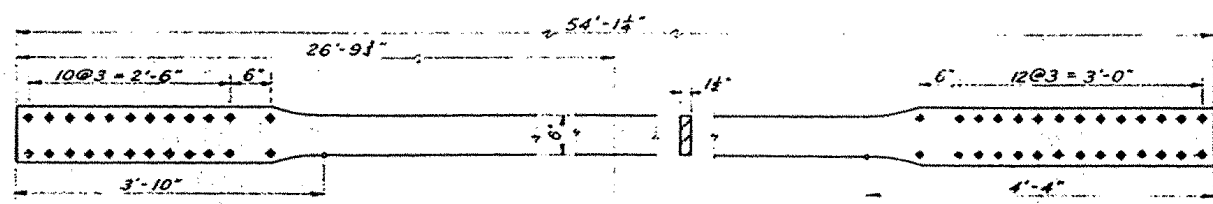
K	34-03	SHEET NO 36	DRAWING - 30 30
SCALE 1" = 2'	BRIDGE 34-04		



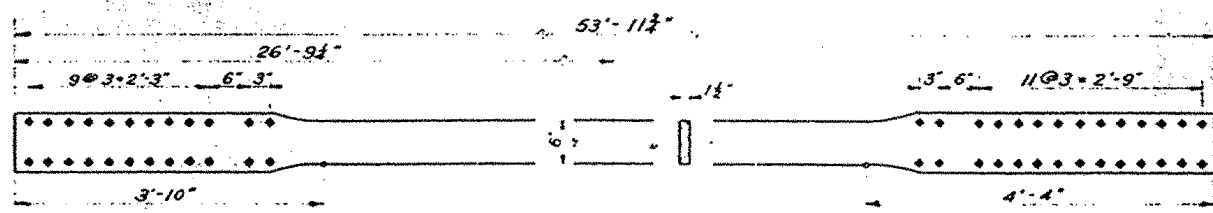
CANTILEVER STRUCTURE FLOOR BEAM COVER PLATES



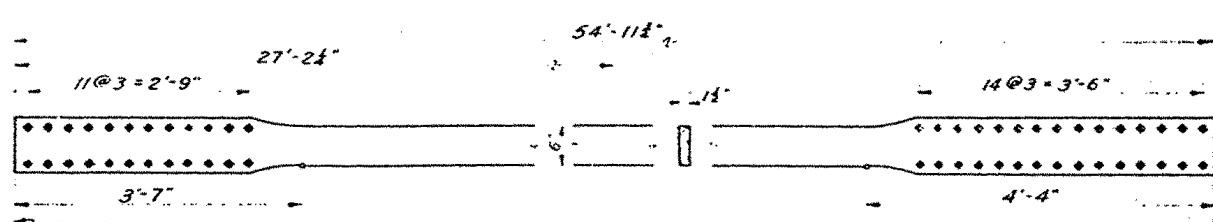
504 FOOT SPANS FLOOR BEAM COVER PLATES 0, 12



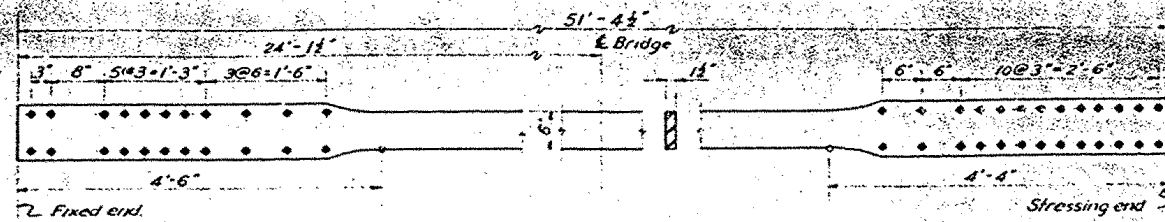
504 FOOT SPANS FLOOR BEAM COVER PLATES 2, 4, 8, 10



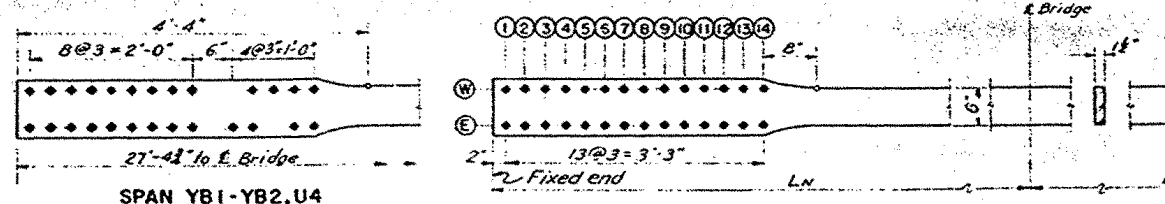
504 FOOT SPANS FLOOR BEAM COVER PLATES 1, 3, 5, 7, 9, 11



504 FOOT SPANS FLOOR BEAM COVER PLATES 6, 12 (E9)



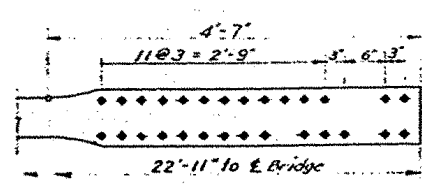
GIRDER SPANS FLOOR BEAM COVER PLATE E 24



SPAN YB1-YB2

FLOOR BEAM	LENGTH	FIXED END	STRESSING END
U0	27'-11"	27'-6"	6W-6E 13W-13E
U1	27'-58"	27'-5"	4W-7E 15W-15E
U2	27'-2	27'-7"	5W-8E 14W-14E
U3	27'-2	27'-2"	7W-10E 1W-1E
U4	27'-41"	27'-8"	See Detail 1W-1E
U5	27'-2	27'-7"	11W-14E 1W-3E
U6	27'-2	27'-48"	13W-13E 3W-6E
U7	27'-0	27'-48"	14W-14E 5W-8E
U8	27'-0	27'-48"	14W-14E 8W-8E

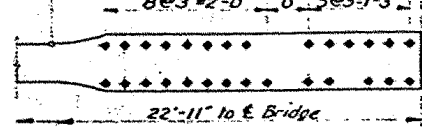
SPAN YB2-YB3, U11 (Fixed end)



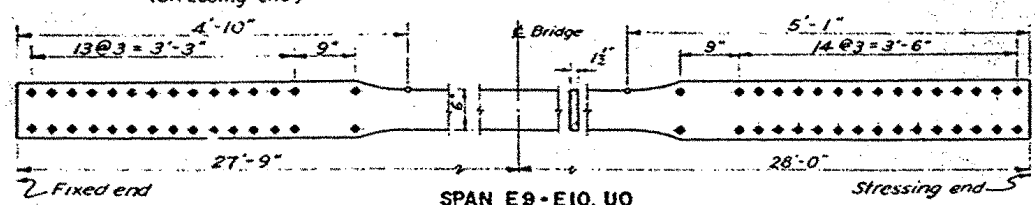
SPAN YB3-YB4

FLOOR BEAM	LENGTH	FIXED END	STRESSING END
U18	27'-11"	27'-2"	10W-5E 1W-1E
U19	27'-2	27'-5"	12W-9E 3W-3E
U20	27'-2	27'-2"	9W-2E 1W-1E
U21	27'-3	27'-6"	2W-2E 10W-10E
U22	27'-0	27'-6"	14W-14E 8W-8E
U23	27'-1	27'-5"	2W-2E 10W-10E
U24	27'-31"	27'-2"	2W-9E 1W-1E
U25	27'-0	27'-41"	8W-11E 2W-2E
U26	27'-2	27'-2"	6W-6E 1W-1E

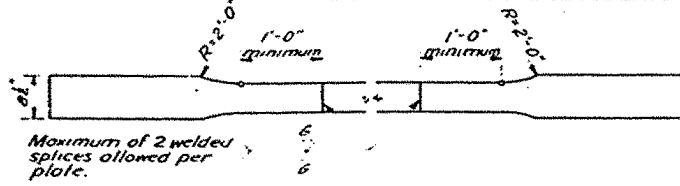
SPAN E9-E10, U3 AND SPAN E10-E11, U5 (Stressing end)



SPAN E9-E10, U5 AND SPAN E10-E11, U3 (Stressing end)



YERBA BUENA SPANS AND SPANS E9 TO E11 FLOOR BEAM COVER PLATES



TYPICAL DETAIL

No scale

MARK	DATE	DESCRIPTION	BY	CHK
1	11.14.3	As built with revisions	28	EEF
		REVISION		

SPAN YB4-E1

FLOOR BEAM	LENGTH	FIXED END	STRESSING END
U9	27'-0	27'-6"	14W-14E
U10	27'-2	27'-2"	6W-10E
U11	27'-58"	27'-2"	See Detail 1W-1E
U12	27'-5	27'-5"	2W-2E 10W-10E
U13	27'-0	27'-5"	14W-14E 7W-7E
U14	27'-0	27'-6"	14W-14E 5W-5E
U15	27'-0	27'-2"	4W-4E 1W-1E
U16	27'-23"	27'-48"	5W-17E 2W-2E
U17	27'-0	27'-18"	4W-9E 1W-1E

SPAN YB4-E1

FLOOR BEAM	LENGTH	FIXED END	STRESSING END
U27	27'-1	27'-2"	6W-6E 1W-1E
U28	27'-2	27'-5"	12W-9E 3W-3E
U29	28'-61"	27'-2"	8W-8E 1W-1E
U30	27'-1	27'-7"	2W-2E 13W-13E
U31	27'-0	27'-6"	14W-14E 8W-8E
U32	27'-1	27'-6"	2W-2E 10W-10E
U33	27'-01"	27'-2"	2W-8E 1W-1E
U34	27'-01"	27'-7"	12W-8E 2W-2E
U35	27'-1	27'-51"	2W-2E 9W-9E

SPAN E10-E11

FLOOR BEAM	LENGTH	FIXED END	STRESSING END
U0	TYPE 'A' PLATE	See Sheet No 30	See Detail
U1	23'-0	22'-9"	14W-14E 1W-1E
U2	22'-10	22'-8"	11W-11E 14W-14E
U3	22'-11	22'-11"	8W-8E See Detail left
U4	22'-10	22'-10"	6W-6E 10W-10E
U5	22'-10	22'-11"	8W-8E See Detail left
U6	22'-10	22'-10"	12W-12E 14W-14E
U7	23'-2	22'-11"	14W-14E 1W-1E
U8	TYPE 'A' PLATE	See Sheet No 36	See Detail

NOTES

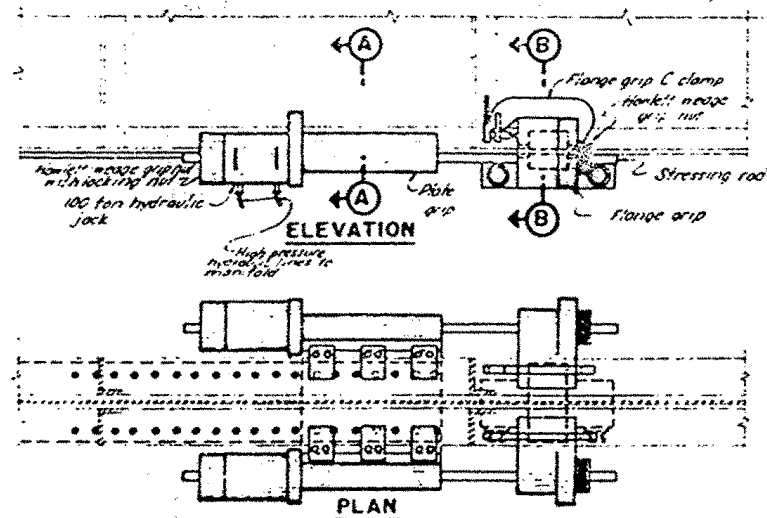
- All cover plates shall be T-1 steel.
- Holes for type 'B' cover plates shall be 1/2" diameter.
- For panel point designations, see Elevation, Sheets, No 6 thru 10.
- Omitted Holes were drilled when the plate grip at outer end of ball area was completed prior to stressing was completed.

SAN FRANCISCO OAKLAND BAY BRIDGE RECONSTRUCTION

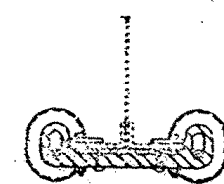
STEEL WORK - EAST BAY

TYPE B COVER PLATES

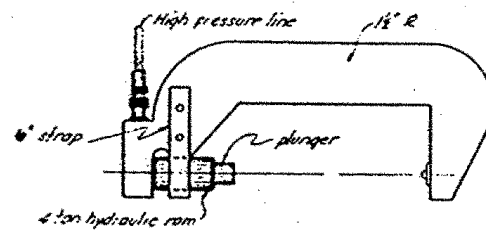
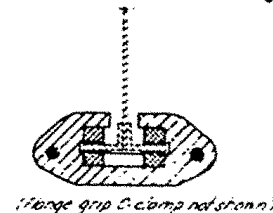
SCALE 1"=1'-0"



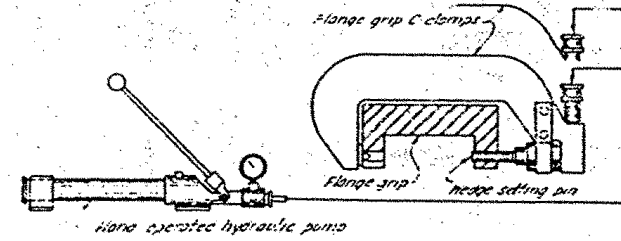
SECTION A-A



SECTION B-B



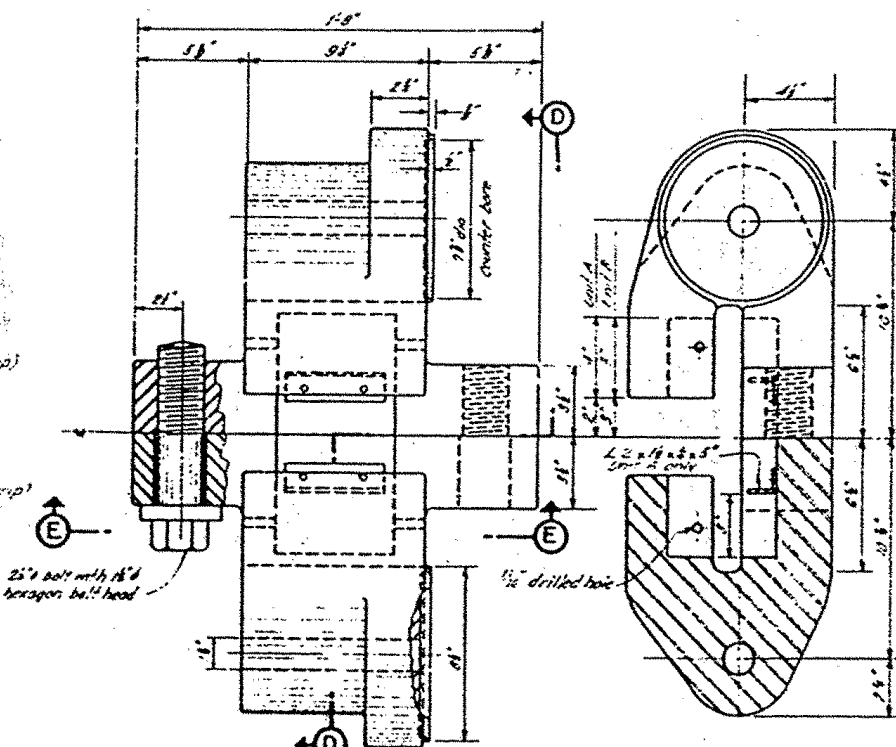
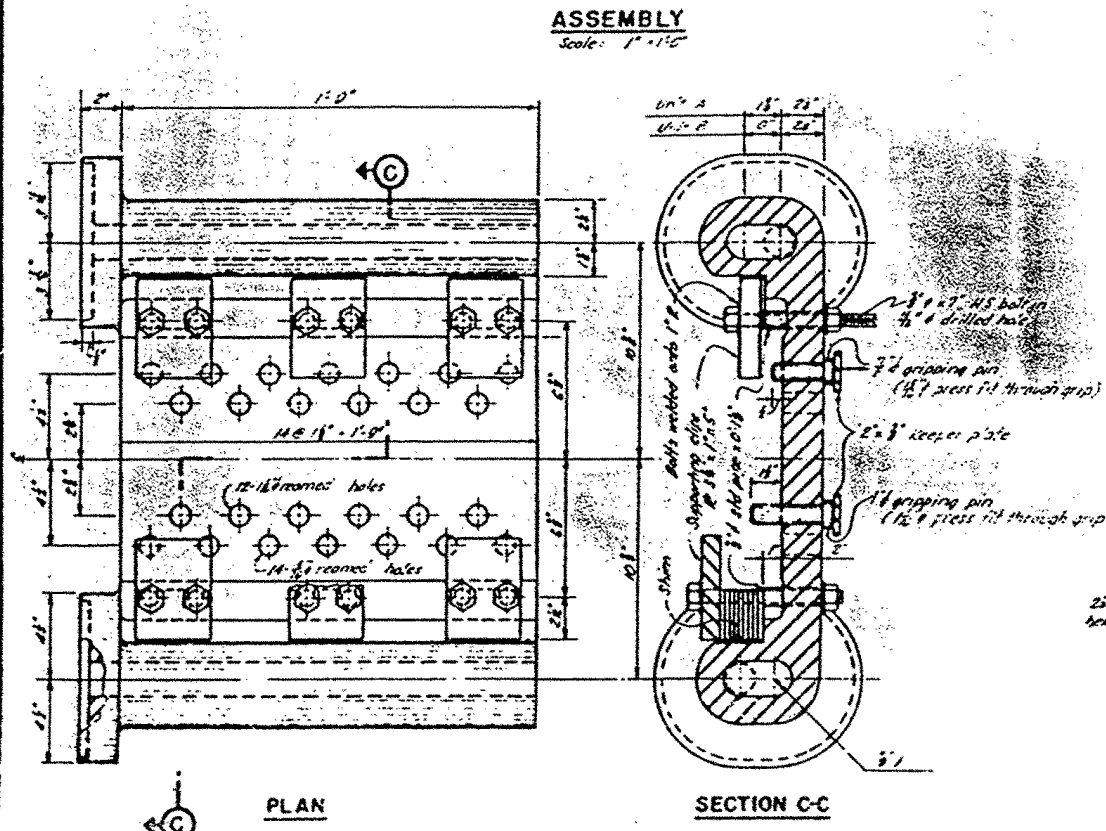
FLANGE GRIP C-CLAMP
(Two required)



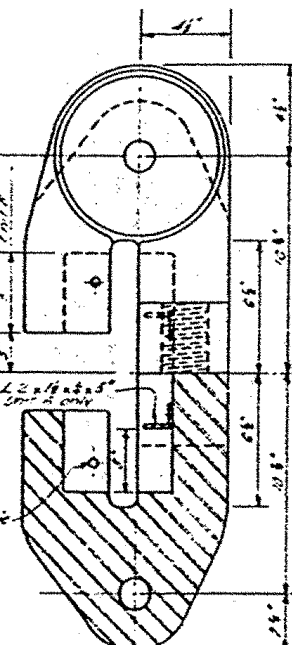
SETTING FLANGE GRIP WEDGES

[illegible]

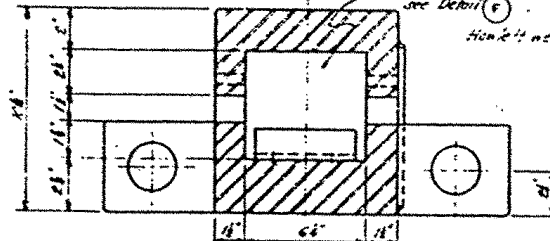
These parts will be available at a special discount rate.



PLAN



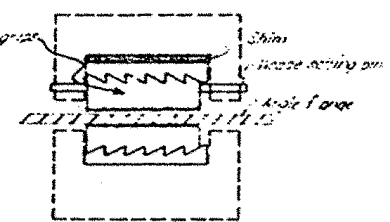
SECTION D-D



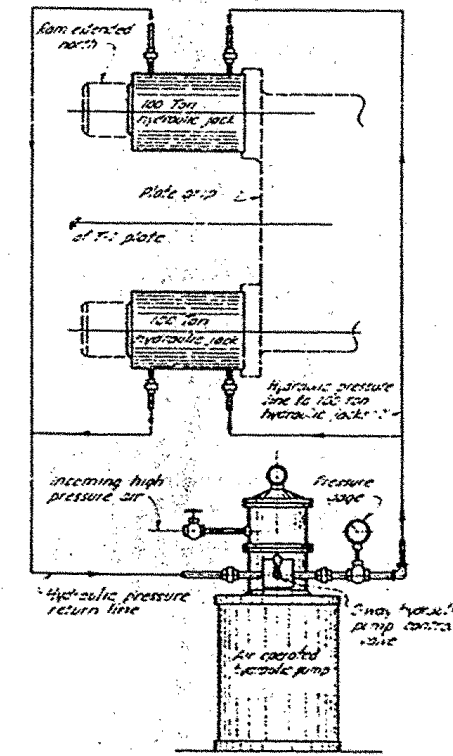
SECTION E-E

FLANGE GRIP

about 1/2 shown, and 1/2 seen in
- 2/3 of the height, 49-1/2 inch



DETAIL F

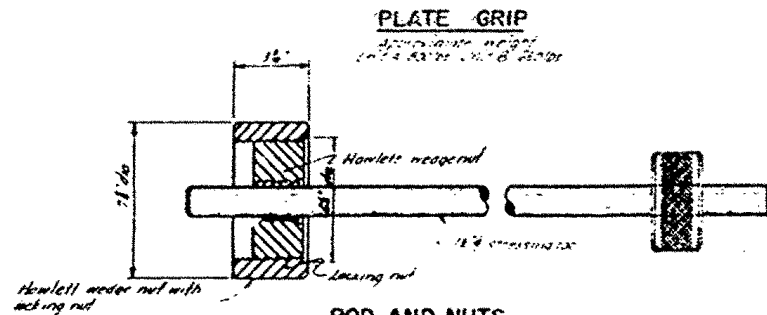


HYDRAULIC SYSTEM

ERECTION PROCEDURE OF STRESSING DEVICE

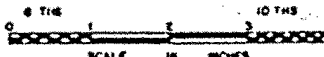
Place grip area on flange angles

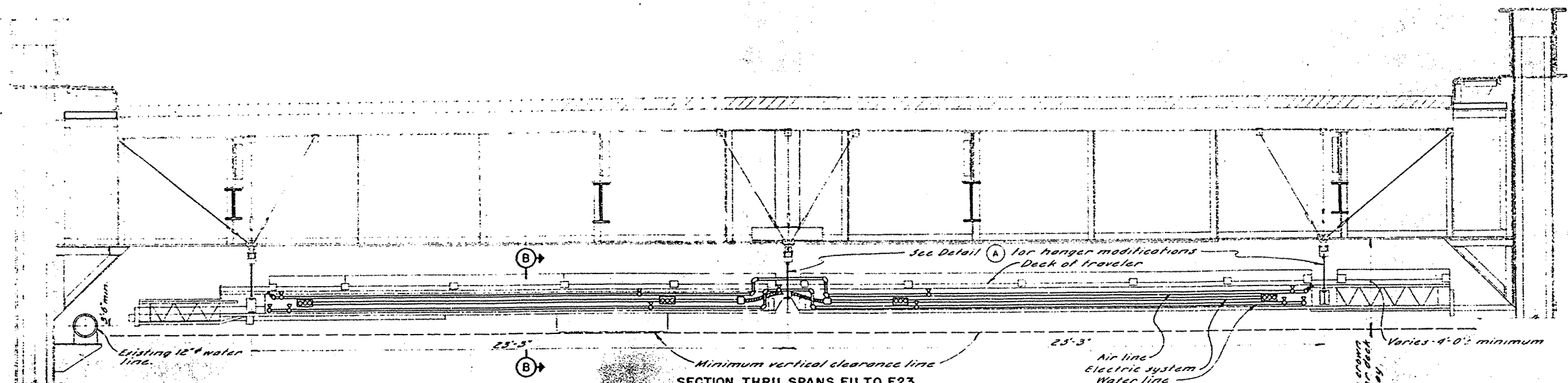
Place flange and castings on flange angles but them together
first. Insert wedge grip teeth into flange angles with the help
of angle grip. Balance flange angles with the stressing rods.
Use the plate griping rods to pull the flange angles together
and the plate rods to pull plates together. After supporting
both ends, rest on flange angles. Place stressing rods, plate and
wedge, one foot and six inch nuts, barbed rods with pump
and 3 manholes. Jacks may be placed either on the plate grip end
or at the flange grip end of the stressing rods.



ROD AND NUTS

Approximate weight 195 lbs

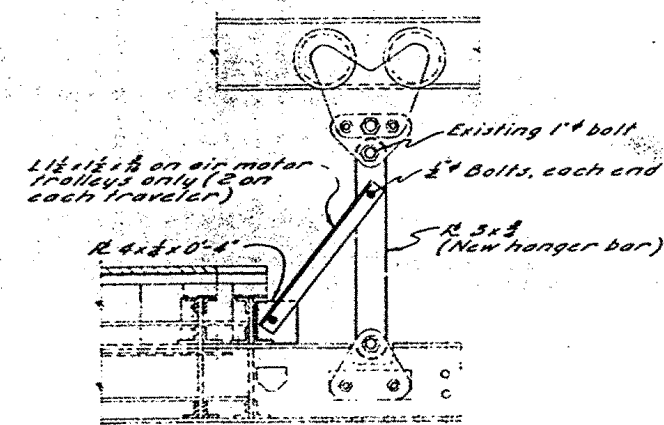




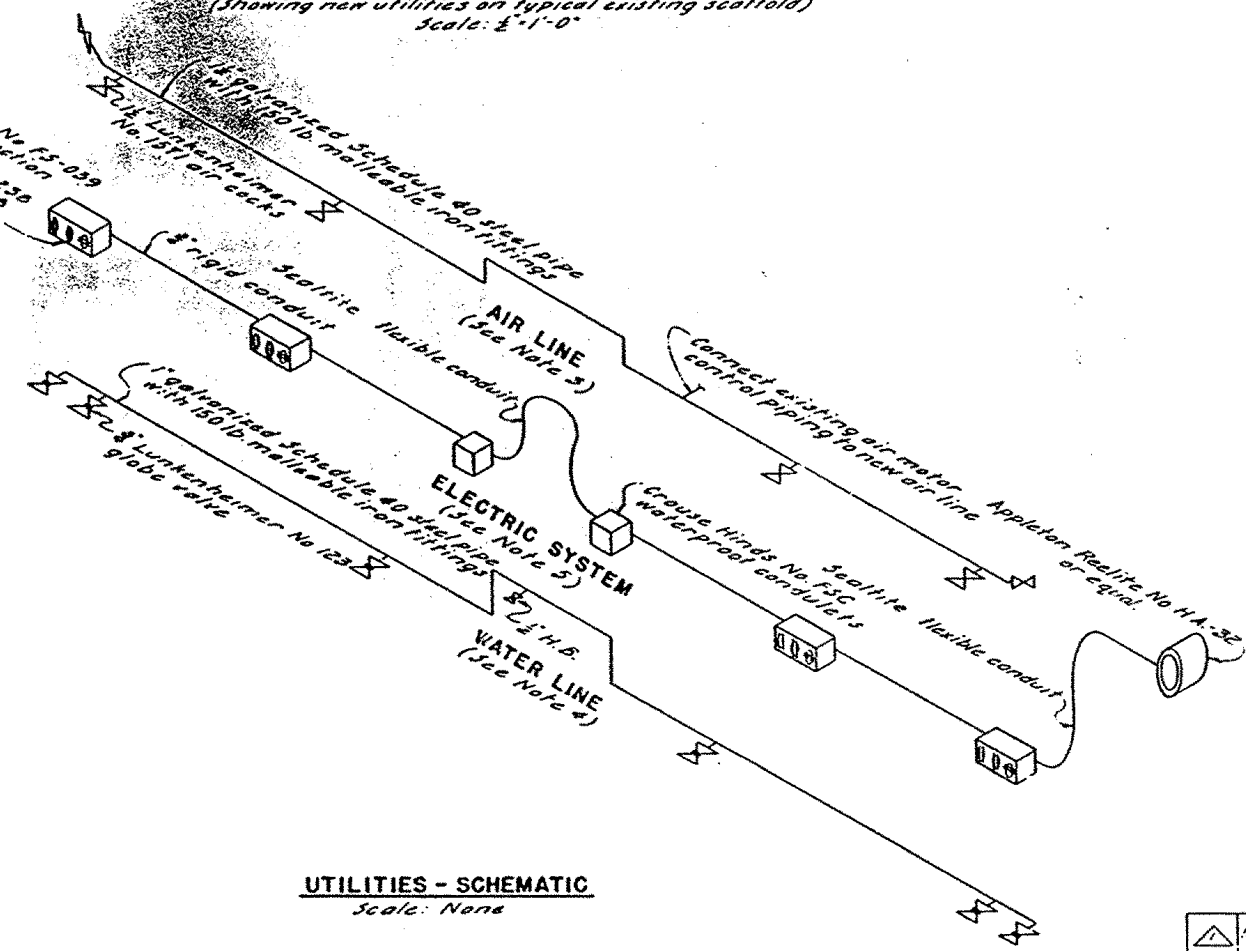
SECTION THRU SPANS E11 TO E23
(Showing new utilities on typical existing scaffold)
Scale: 1/2" = 1'-0"

NOTES

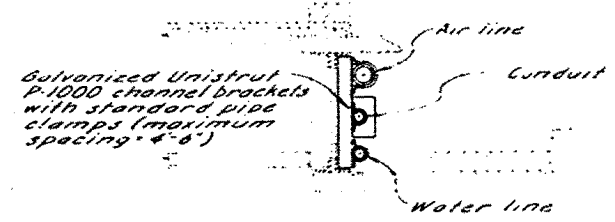
1. Furnish and install a 1" water line, 1/2" air line and a 120/240 single phase electrical distribution system, including all wire, conduit and pipe, all fittings, clamps and supports, and all necessary devices for operation.
2. All rigid conduit and associated equipment shall be hot-dip galvanized.
3. Supply three 50' lengths of 1/2" Acme Gold Seal hose with Chicago Pneumatic No. C-15076 and No. C-15145 universal couplings as required on the air system.
4. Supply three 50' lengths of Acme Buffalo (200 p.s.i.) hose with Chicago Pneumatic No. C-15120 and No. C-15150 universal couplings as required on the water system.
5. Supply and install 150' of 14-33J cord with Crouse-Hinds No. WFB2B weatherproof plug on the electric system.



**DETAIL A
HANGER MODIFICATION**
(Existing hanger bars to be removed and retained on traveler for future use.)
Scale: 1/2" = 1'-0"



UTILITIES - SCHEMATIC
Scale: None



SECTION B-B
Scale: 1/2" = 1'-0"

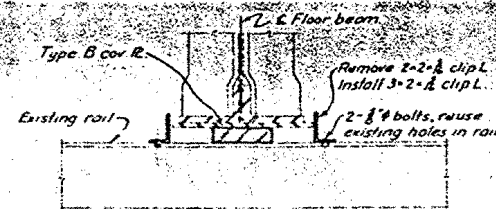


STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS			
SAN FRANCISCO-OAKLAND BAY BRIDGE RECONSTRUCTION STEEL WORK - EAST BAY			
TRAVELER SCAFFOLD MODIFICATIONS			
SCALE AS SHOWN	PAGE 34 OF 34	SHEET NO. 41	DRAWING C-4030-4-R

11.1.1	As built without revisions	08	EEF
MARK	DATE	DESCRIPTION	BY
		REVISION	CHK

APPROVAL RECOMMENDED BY: *W. R. Richey*
LICENSE 1476

DESIGN	DATE	BY	CHK
DETAIL	DATE	BY	CHK
QUANTITY	DATE	BY	CHK
FIELD	DATE	BY	CHK
REVISION	DATE	BY	CHK

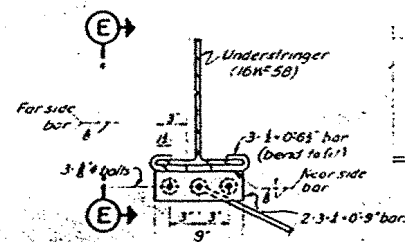


All interior floor beams under Type B cover Plots



DETAIL B
Scale: 1 1/2" = 1'-0"

SECTION C-C
Scale: 1/2" = 1'-0"

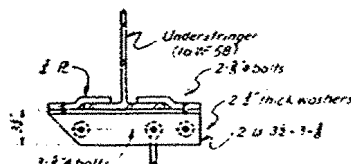


DETAIL D
Scale: 1½" = 1'-0"

SECTION E-E
Scale 1½" = 1'-0"

Diagram illustrating a vertical rod with a diagonal rod attached at the bottom. The vertical rod is labeled "Vertical rod" and the diagonal rod is labeled "Diagonal rod". The vertical rod is supported by a hinge at the bottom. The diagonal rod is attached to the vertical rod at the bottom and is inclined at an angle. The forces and moments are labeled as follows:

- At the top of the vertical rod: Δ (upward force), Δ (downward force), Δ (upward force), Δ (downward force).
- At the bottom of the vertical rod: Δ (upward force), Δ (downward force), Δ (upward force), Δ (downward force).
- At the bottom of the diagonal rod: Δ (upward force), Δ (downward force), Δ (upward force), Δ (downward force).



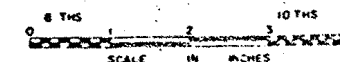
DETAIL F
For one vertical rod
Scale 1/4" = 1'-0"

DETAIL G
A: rail splice
Scale: 1½" = 1'-3"

SPAN	PANEL	RAIL	POSITION IN PANEL				
			W.	C	F	AW	AF
E 9 - E 10	U1-U1	N(North)	II	II	II		
		S(South)	II	III	III		
	U1-U2	N	II	II	II		
		S	III(S)	III	III		
	U2-U3	N	II	II	II		
		S	II	II	II		
	U3-U4	N	ETR	ETR	ETR		
		S	II	II	II		
	U4-U5	N	ETR	ETR	ETR		
		S	II	II	II		
	U5-U6	N	II	II	II		
		S	II	II	II		
	U6-U7	N	II	II	II		
		S	II(S)	II	III		
U7-U8	N	III(S)	III	II		II	
	S	II	II	II			
E 10 - E 11	U0-U1	N	II	III	II	II	
		S	II	II	II		
	U1-U2	N	II	II	II		
		S	III(S)	III	III		
	U2-U3	N	II	II	II		
		S	II	II	II		
	U3-U4	N	ETR	ETR	ETR		
		S	II	II	II		
	U4-U5	N	ETR	ETR	ETR		
		S	II	II	II		
	U5-U6	N	II	II	II		
		S	II	II	II		
	U6-U7	N	II(S)	III	II		
		S	III(S)	III	II		
U7-U8	N	II	II	II			
	S	III(S)	III	II			

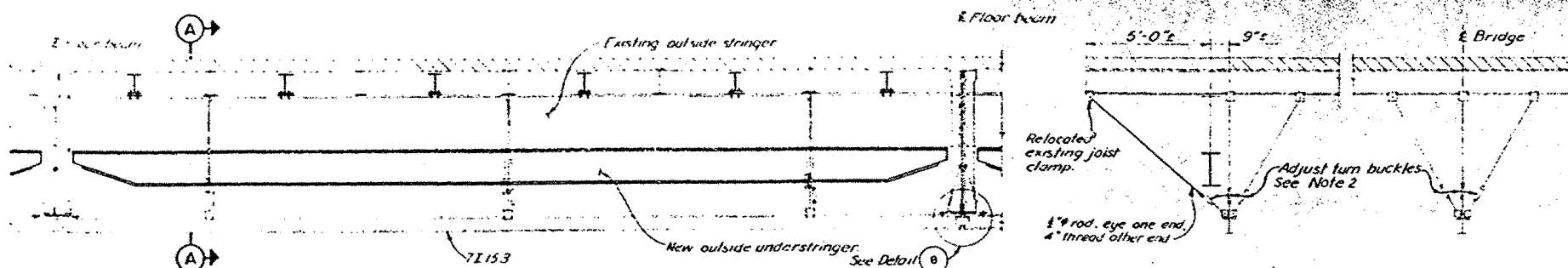
NOTES

- 1 For typical center rail adjustment between floor beams, see Sect. 4-3.
- 2 For adjustment of center rail under floor beam, 2-B, span E9-E10, see U.O. and U.S., span E.O-E11, see Detail 4-3.
- 3 For adjustment of rails under floor beam of U.O., span E9-E10, see Detail 4-3.
- 4 Adjustment of turnbuckles is permitted if the hanger rods engage the full length of the turnbuckle threads. Where adjustment of turnbuckles is not feasible, rails shall be lowered by substituting rods or adequate washers or by shimming rod brackets. (See Rail Connection Detail 4.)
- 5 Lock washers should be fastened under the ends of all rails to be used in the new track.



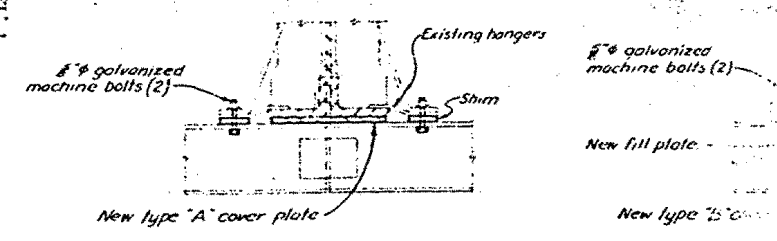
	11.163	As built without revisions	OK	EEF	TRAVELER RAIL ADJUSTMENT YBI-E1 AND E9-E11				
	MARK	DATE	DESCRIPTION	BY	CHK	AS SHOWN SCALE	BRIDGE 32-25 32-03 34-04	SHEET NO 42	DRAWN: 640304
		REVISION							

APPROVAL RECOMMENDED BY
 [Signature]
 LICENSE NO. 11111

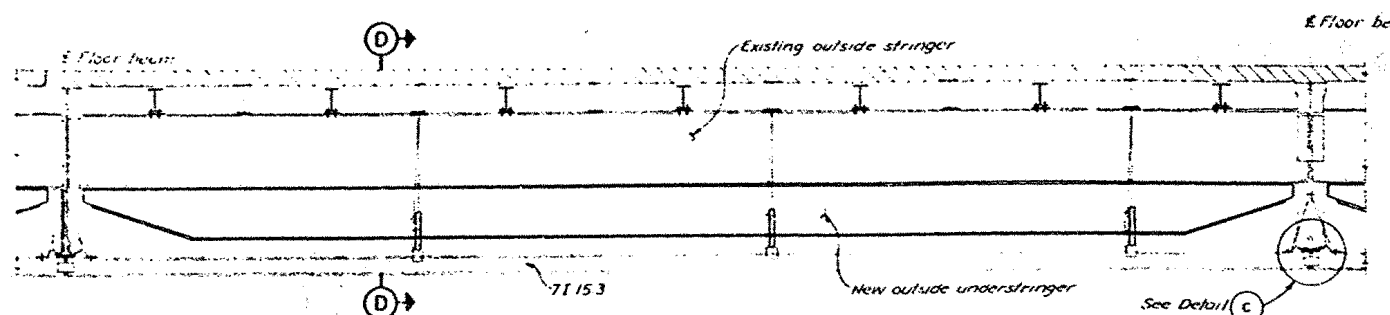


TYPICAL PANEL - 288 FOOT SPANS E11 TO E23

SECTION A-A

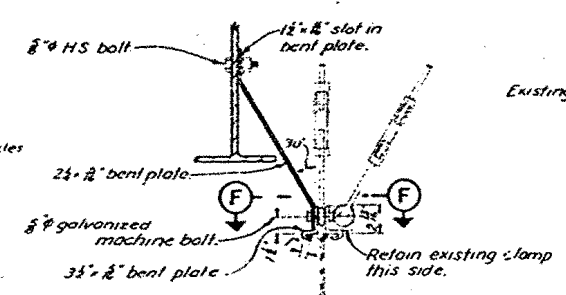
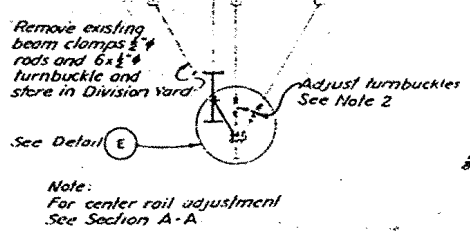


DETAIL B
 Rail adjustment of type "A" cover plate.
 Scale: 1 1/2" = 1'-0"

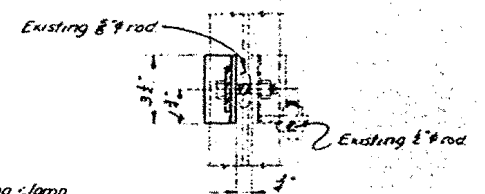


TYPICAL PANEL - 504 FOOT SPANS E4 TO E9

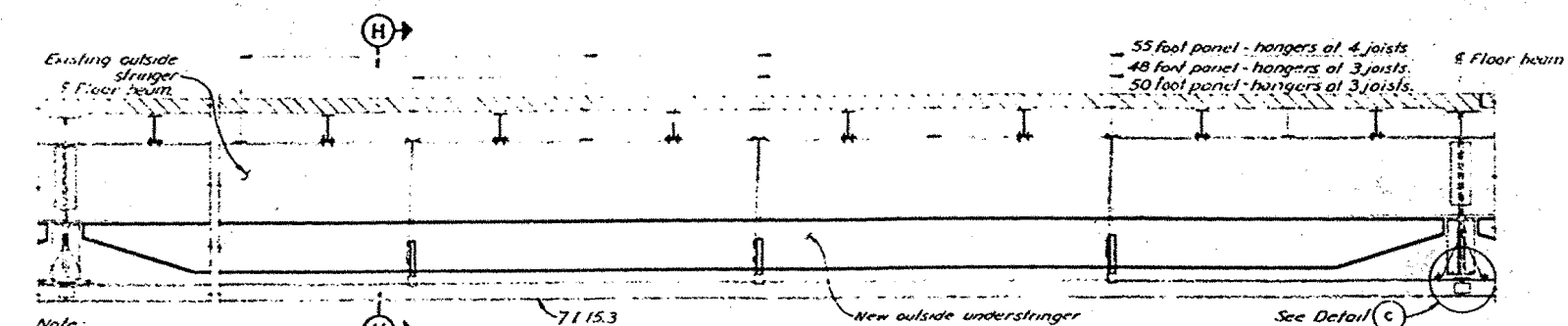
SECTION D-D



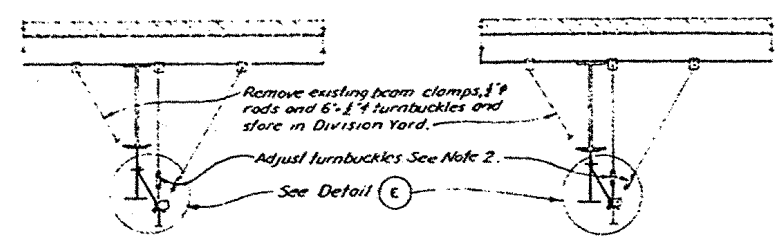
DETAIL E
 Scale 1 1/2" = 1'-0"



SECTION F-F
 Scale 3" = 1'-0"

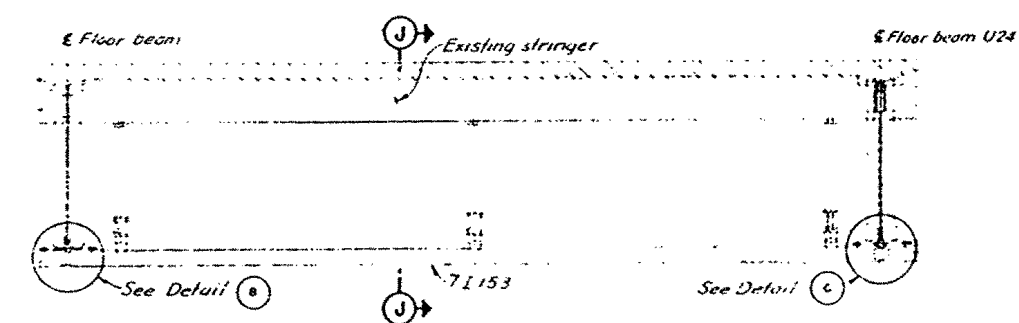


TYPICAL PANEL - CANTILEVER STRUCTURE E1 TO E4 AND TOWER E9

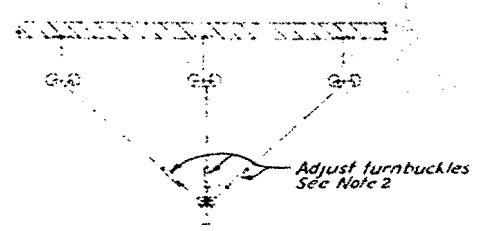


Note:
 For center rail adjustment
 See Section A-A.

SECTION H-H



TYPICAL PANEL - GIRDER SPANS E23-E25



SECTION J-J

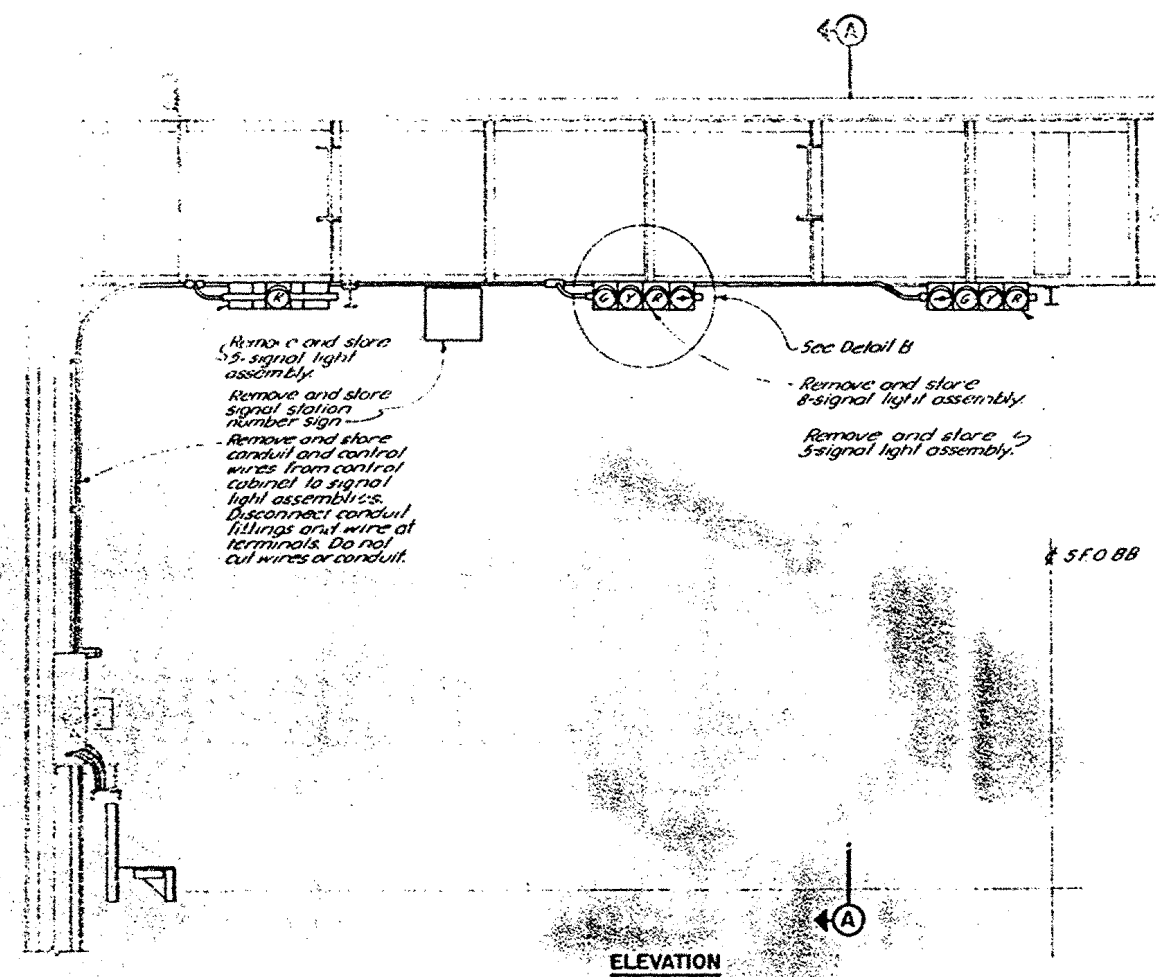
NOTES

1. For new rod details, see Sheet No. 42.
2. Adjustment of turnbuckles is permitted if the hanger rods engage the full length of the turnbuckle threads. Where adjustment of turnbuckles is not feasible rail shall be lowered by substituting rods of adequate length.
3. Lock washers shall be furnished under the nuts of all machine bolts used in the new work.

SAN FRANCISCO-OAKLAND BAY BRIDGE			
RECONSTRUCTION			
STEEL WORK - EAST BAY			
TRAVELER RAIL ADJUSTMENT E11 TO E23 AND E23 TO E25			
UNLESS NOTED			
SCALE 3/4" = 1'-0"			

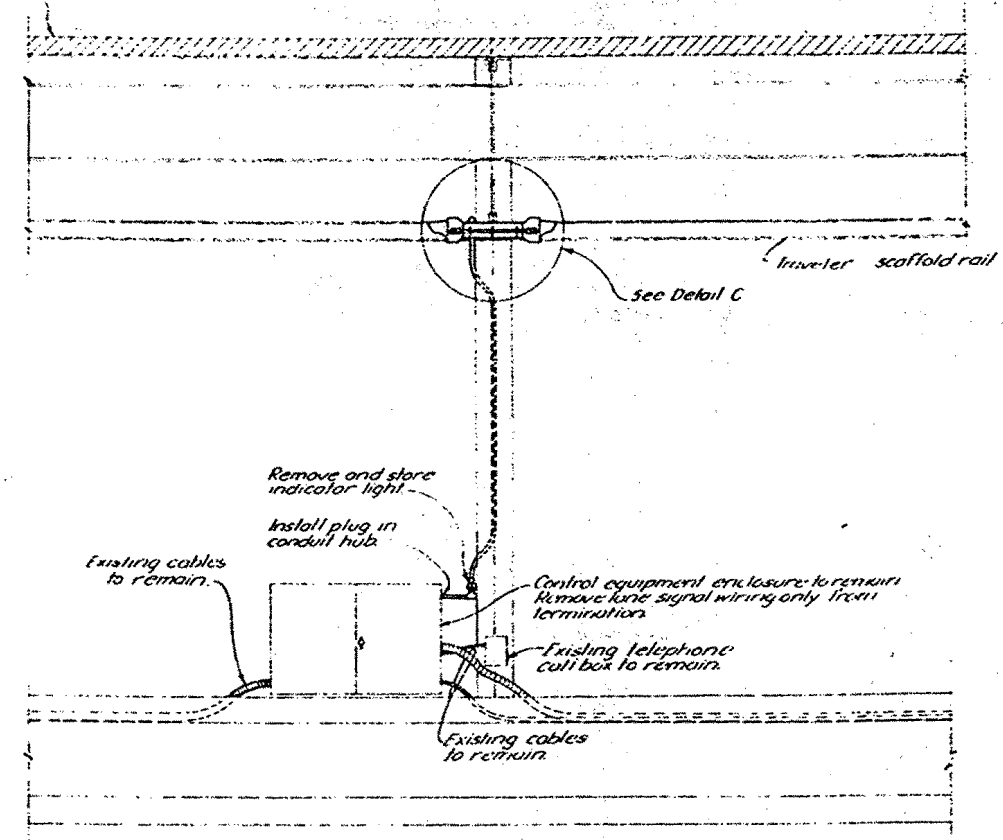
DATE	DESCRIPTION	BY	CHK
11/1/63	As built without revisions	GB	EEF
	REVISION		

SIGNAL LOCATIONS	
Signal Number	SFOBB Station No.
23	170+95
24	175+21
25	178+12
26	181+04
27	184+62
28	193+94
29	196+70
30	202+40
31	208+12
32	214+07
33	220+42
34	225+93
35	234+43
36	237+81
37	242+91
38	248+73
39	254+55
40	260+39
41	266+23
42	272+07
43	278+20



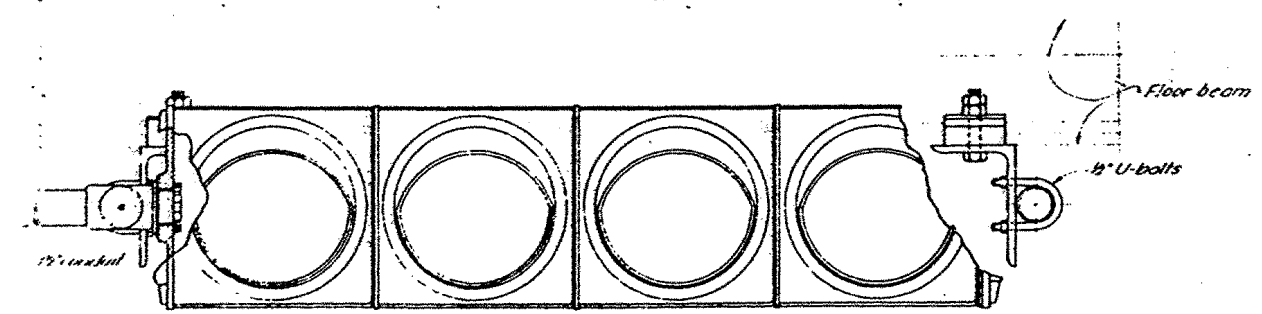
ELEVATION

Upper deck

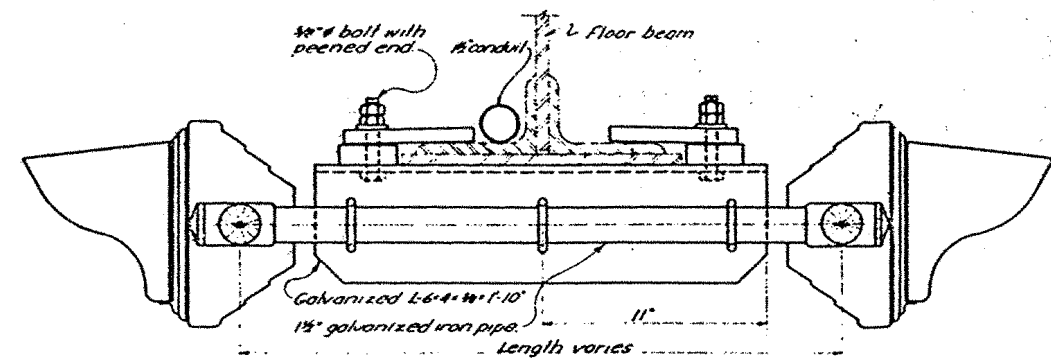


SECTION A-A

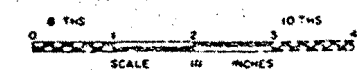
TYPICAL LANE SIGNAL INSTALLATION
Scale: 1/8"=1'-0"



DETAIL B
Scale: 1"=1'-0"



DETAIL C
Scale: 1"=1'-0"



11.1.43	As built without revisions	28	EEF
MARK	DATE	DESCRIPTION	BY
		REVISION	CHK

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF SAN FRANCISCO BAY TOLL COLLECTION

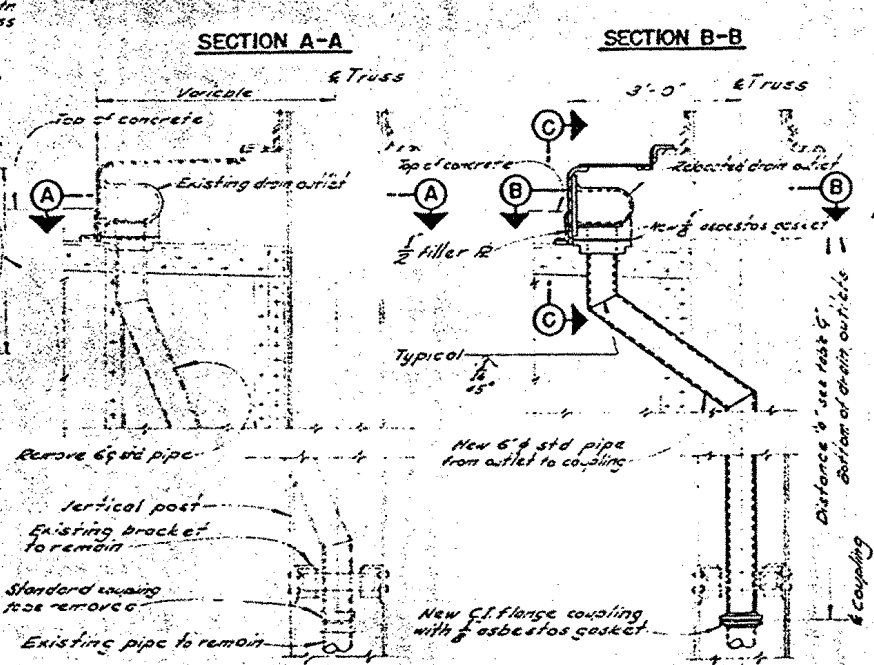
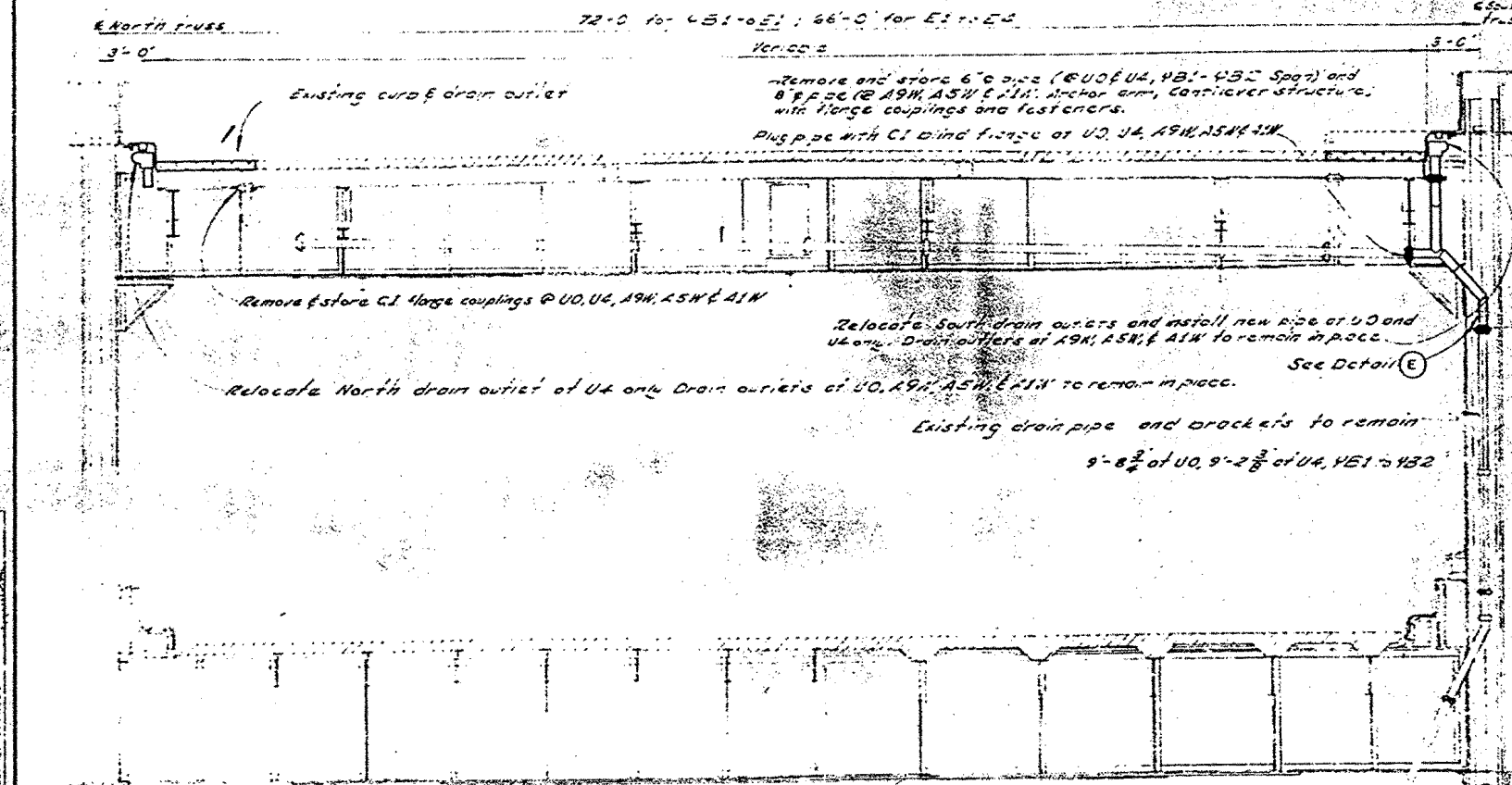
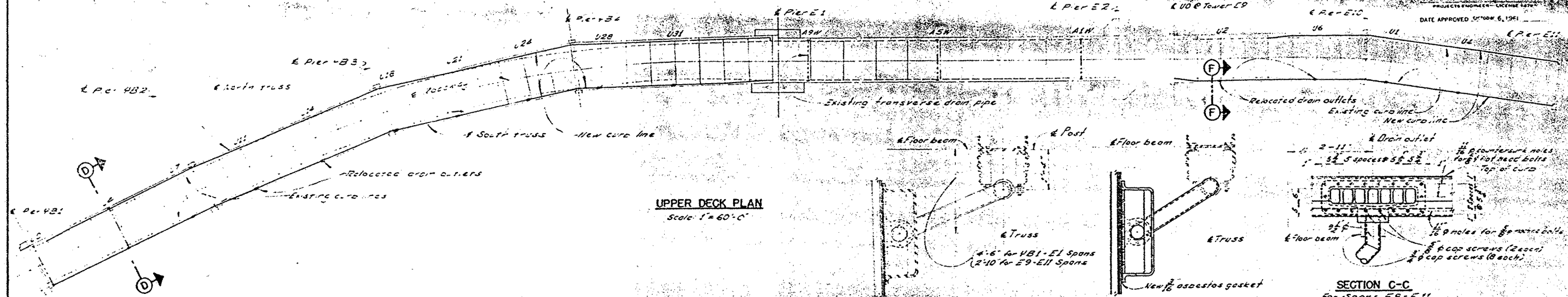
**SAN FRANCISCO-OAKLAND BAY BRIDGE
RECONSTRUCTION
STEEL WORK-EAST BAY**

LANE SIGNAL SYSTEM REMOVAL

33-25
34-03
BRIDGE 34-04

SHEET NO. **44**

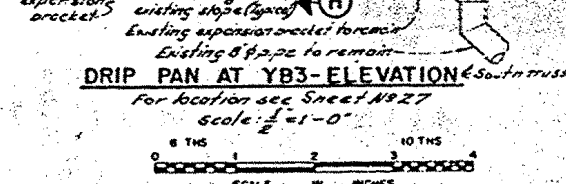
SCALE AS SHOWN



EXISTING DRAIN
SINGLE DRAIN UNIT SOUTH - SECTION F-F
Note: Details for E9-E11 spans shown. For VBI-E1 spans see section C-C.
Scale: 1/2" = 1'-0"

Span	VBI-E1	VBI-E2	VBI-E3	VBI-E4	VBI-E5	VBI-E6	VBI-E7	VBI-E8	VBI-E9	VBI-E10	VBI-E11
UT	U1	U2	U3	U4	U5	U6	U7	U8	U9	U10	U11
0	9-11	6-4	6-4	6-4	6-4	6-4	6-4	6-4	6-4	6-4	6-4

Note: Add to distance a length required for pipe bend and pipe connections.



APPROVAL RECOMMENDED BY
[Signature]
[Title]

DESIGN
DETAILS
[Signature]
[Title]

11.63	As built without revisions	OB	EEF
MARK	DATE	DESCRIPTION	BY
		REVISION	CHK

SCALE AS SHOWN	BRIDGE 34-03	SHEET No 45	DRAWING 4030-45R
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